



PRE-DESIGN INVESTIGATION TECHNICAL MEMORANDUM OPERABLE UNIT 3

Nease Chemical Site, Columbiana and Mahoning Counties, Ohio

Submitted To: U.S. Environmental Protection Agency

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Ohio EPA

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August 2011

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Golder Associates

Project No. 933-6154



August 1, 2011

Project No. 933-6154

Mr. Dion Novak USEPA Region V (SR-6J) 77 West Jackson Boulevard Chicago, IL 60604

RE:

PRE-DESIGN INVESTIGATION TECHNICAL MEMORANDUM FOR OPERABLE UNIT 3 NEASE CHEMICAL SITE, COLUMBIANA AND MAHONING COUNTIES, OHIO

Dear Dion,

On behalf of RÜTGERS Organics Corporation (ROC), Golder Associates Inc. (Golder Associates) is pleased to submit the Pre-Design Investigation Technical Memorandum for Operable Unit 3 of the Nease Chemical Site located in Mahoning and Columbiana Counties, Ohio. Copies have also been sent directly to the Ohio Environmental Protection Agency (Ohio EPA).

This Technical Memorandum provides a description of the Pre-Design Investigation activities conducted in support of the upcoming Remedial Design work for OU-3. A preliminary summary of these activities and the results of analytical testing available at that time were shared with the Agencies during our meeting on June 1, 2011. This report provides further evaluation of the results and includes the fish tissue analytical data that were not available at the time of our meeting.

If you should have any questions during your review, please do not hesitate to contact Dr. Rainer Domalski at ROC (814/238-5200) or the undersigned (856/793-2005). We look forward to working with the Agencies as we move forward into the Remedial Design stage of work for the Site.

Very truly yours,

GOLDER ASSOCIATES INC.

Andrew P. Joslyn

Senior Project Environmental Engineer

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Ohio EPA

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1.0 INTRODUCTION

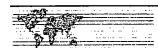
This Pre-Design Investigation (PDI) Technical Memorandum (TM) has been prepared by Golder Associates Inc. (Golder), on behalf of RÜTGERS Organics Corporation (ROC), for Operable Unit 3 (OU-3) of the Nease Chemical Site, located in Columbiana and Mahoning Counties, Ohio (Site). OU-3 comprises contaminated portions of Feeder Creek (located at the former Nease Chemical Facility) and Middle Fork Little Beaver Creek (MFLBC), including associated floodplain soils. Figure 1 shows the location of the Site (including the former Nease facility and the MFLBC). This PDI TM describes the investigation procedures followed for the PDI field work conducted between September 2009¹ and March 2011 pursuant to the PDI Work Plan (Work Plan), which was approved by the United States Environmental Protection Agency (USEPA) on September 8, 2010. The PDI TM also presents the analytical laboratory results for the samples collected during the PDI. The Work Plan was prepared pursuant to the Administrative Order on Consent (AOC) between ROC and USEPA effective June 30, 2009. The overall purpose of this report is to present analytical results that will form the foundation for the Remedial Design (RD).

The former Nease Chemical Facility, located on Benton Road near Allen Road in Salem, Ohio included a manufacturing area (west of the Norfolk Southern Railroad tracks) and wastewater ponds (on both sides of the railroad tracks). Feeder Creek flows from the Nease property (on the east side of the railroad tracks) to the MFLBC and likely represented the primary transport route for Site-related contaminants to enter the MFLBC system. The confluence of Feeder Creek and the MFLBC is at about MFLBC River Mile (RM) 37.6. From there, the MFLBC flows northeast into Mahoning County and then turns back to the south and flows back into and through Columbiana County until it joins with two other creeks (North Fork and West Fork) to form Little Beaver Creek, which flows south to the Ohio River.

The MFLBC has a total river mile length of approximately 40.6 miles and all waters of the MFLBC are designated for agriculture, industry, and primary contact uses, but none are designated for "drink" use. The properties bordering the MFLBC include residential, recreational, agricultural, and industrial/commercial uses. As shown in the aerial photograph on Figure 1, land use along the creek from river mile (RM) 37.6 through RM 31.0 can be classified as "rural", consisting of primarily agricultural land with some dispersed residential areas, and relatively little commercial use. Colonial Villa, a mobile home community, represents the most densely populated residential area within the target reach and it is located between RM 35.0 and RM 36.0. The contaminant of concern in OU3 is mirex, which was the main focus of the PDI study.

¹ September 2009 activities were conducted pursuant to a separate Reconnaissance Work Plan that was approved by the Agencies on September 11, 2009





2.0 DESCRIPTION OF FIELD ACTIVITIES

The overall objective for the OU-3 PDI was to define the extent and distribution of mirex contamination in MFLBC sediments, adjacent floodplain soils, and fish between RM 37.6 and 31.0. These data will be used to identify specific target areas for remediation where mirex surface-weighted average concentrations (SWACs) exceed clean-up levels, and to identify areas of high quality habitat within areas targeted for remediation. The PDI data will also serve as "baseline" data against which future long-term monitoring results can be compared. The extent of the overall sampling program is shown on Figure 2.

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2.1 MFLBC Reconnaissance

2.1.1 Overview

As specified in the AOC Statement of Work (SOW), Site Reconnaissance was required as a first step in the PDI, and a Work Plan Memorandum describing the planned reconnaissance activities was submitted to the Agencies on August 24, 2009. The Agencies provided comments via e-mail on August 31, 2009 and ROC also provided responses to these comments on August 31, 2009. The Agencies approved the Work Plan Memorandum (as modified by the response to comments) on September 11, 2009.

In order to facilitate dynamic decision-making and efficient data collection in the PDI, the Site Reconnaissance described in the Work Plan Memorandum included some portions of the PDI scope required by the SOW, in addition to the basic requirements specified for the Site Reconnaissance.

The reconnaissance included the following tasks, as outlined in the PDI Reconnaissance Work Plan Memorandum:

- Detailed mapping of the extent of fine-grained sediment bodies from RM 37.6 through 31.0² using a handheld global positioning system (GPS) device.
- Detailed description of fine-grained sediment through collection of cores and/or grab samples of sediment within the mapped sediment bodies for visual classification.
- Description of general sediment type in areas adjacent to fine-grained sediment bodies, including at least one description per 0.1 river mile (for segments that included fine-grained sediment).
- Laboratory grain size analyses of each significant fine-grained sediment "type" encountered.
- Photographic documentation of the stream channel and banks at each 0.1 river mile.
- Mapping of obstructions within the stream that might interfere with investigation or remediation activities (including photographic documentation).
- Identification of areas of high quality habitat.

² As agreed with Ohio EPA's on-site representative, one segment of the stream from RM 36.4 to RM 36.7 was not mapped during the Reconnaissance based on the objections of a nearby riparian area property owner. Access agreements for portions of RM 36.4 to 36.7 were later signed by the property owners, so the area was sampled during the PDI sampling activities.





Discussions with riparian area property owners³ regarding the upcoming PDI work and associated access requirements.

2.1.2 Results

A Trimble GeoXH handheld GPS device running ESRI's ArcPad software version 8.0 with possible GPS horizontal accuracy of 1 ft or better was used to collect spatial data and other observations in the field. For each location measurement collected with the handheld GPS unit, the estimated accuracy is recorded by the device. Accuracy can be influenced by time of day (number and locations of available satellites) and by obstructions such as bridges and the forest canopy, so in some cases, the theoretically possible accuracy was not achieved during the Reconnaissance work. The rated accuracy of the device is also influenced by the exact position of the satellites it uses. The positions of satellites may shift slightly from the predicted positions, so the GPS device accounts for these possible shifts when determining the estimated accuracy of the data. In order to reduce the uncertainty related to the exact positions of satellites, there are services that collect data on the satellite locations and by using these data, it is possible to revise the location information collected by the GPS in the field, and in many cases, the confidence in the GPS data (and therefore the accuracy) is significantly increased by using known satellite positions. This process is referred to as post-processing. Post-processing of the data was conducted using Trimble GPS Analyst's Differential Correction tool and the results indicate that approximately 91% of the location data collected were accurate to within 1 meter with about 56% being accurate to within 0.5 meter. The accuracy of the collected locations is important because the GPS location data were used for identifying sampling locations during the PDI sampling and will also be used for design purposes.

The detailed mapping of sediment bodies showed that between RM 31.0 and approximately RM 36.3, the majority of fine-grained sediment is located in small pockets close to the banks of the stream in areas that would be expected to be depositional given the stream morphology. These are areas where water velocities are slower (such as on the outsides of bends), allowing fine particles to settle out of suspension. In addition, fine-grained sediment is limited to a thickness of 1 or 2 inches in most places, and in some areas, fine-grained sediment is found only in the interstices between larger cobbles. From RM 36.3 to at least RM 37.7, fine-grained sediment is trapped by submerged aquatic vegetation (*elodea* or similar species) that covers up to 70% of the streambed in some areas. These plants cause the water velocity to slow, allowing fine-grained sediment to settle out and collect near the roots of the plants. These plants were typically found growing in coarser materials, such as sands and gravels, so the fine-grained sediment in these areas is restricted to a thickness of 1 to 2 inches at the base of the vegetation. The frequency of occurrence of this aquatic vegetation throughout this segment of the stream appeared to be higher than in previous investigations suggesting that the growth may be a relatively recent occurrence, potentially as a result of increased nutrient loading, or other non-Site related environmental factors.



³ These discussions were coordinated and primarily conducted by Ohio EPA.



In addition to the sediment mapping activities, the locations of obstructions in the stream were also recorded and photographed to aid in the development of future remediation plans. A total of 51 obstructions (typically fallen trees blocking the stream) were encountered. In addition, at least four photographs were taken in 0.1 RM segments to provide information about the stream habitat quality, physical access, and floodplain conditions (see Appendix A). The locations of photographs were recorded using the GPS and are shown on Figures 3 through 9.

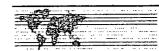
2.2 MFLBC Sediment Sampling

2.2.1 Overview

The purpose of sediment sampling in MFLBC was to obtain current representative mirex concentration data at a high enough resolution to allow for calculations of surface-weighted average concentrations (SWACs) for each one river mile exposure unit. As stated in the Work Plan, mirex tends to adhere to fine-grained, organic-rich sediments. Therefore, the results of the detailed mapping of fine-grained sediments performed during the reconnaissance were used to identify sediment sampling locations. Sediment samples were collected as composites across 0.1 river mile areas and analyzed for mirex, total organic carbon (TOC), grain size distribution, and total solids by TestAmerica, Inc. of North Canton, OH (TA). The sediment remedy is to be designed to achieve a SWAC of 0.5 mg/kg for each 1 mile exposure area between RM 31.0 and RM 37.6. The results of the PDI reconnaissance and sampling will be used to determine how to achieve clean-up levels while protecting habitat to the greatest extent possible. As described in the Record of Decision (ROD), the clean-up level may be modified during detailed design to be as high as 0.75 mg/kg in certain reaches so as to protect areas of high-quality habitat.

A total of 42 composite fine-grained samples and 7 coarse-grained samples were collected (not including field duplicates and matrix spike/matrix spike duplicates [MS/MSDs]) at the locations shown on Figures 3 through 9. The analytical results from sediment samples are discussed in Section 3.2. Table 1 summarizes the composite samples and indicates deviations from the proposed sampling plan, and Table 2 lists all the sub-sample locations that comprise the composite samples. Field changes to the overall sampling program were required for the following reasons:

- Fine-grained sediment was found primarily on only one side of the MFLBC at any given location. The proposed sampling program from the Work Plan indicated that it might be appropriate in some areas to collect separate samples from each side of the stream to help with appropriate staging of sediment removal during remedial action. However, the field team determined that one sample was appropriate in most cases.
- Sediment depth The Work Plan included an allowance for collecting samples from deeper than 6 inches and archiving them; however, fine-grained sediments were not found during sampling at depths greater than 6 inches, so deeper samples could not be collected.



Access restrictions - Certain portions of the stream could not be sampled because it was not possible to obtain access agreements from the associated property owner; however, these areas represented a small percentage of the overall sampling area. Table 1 shows which proposed samples could not be collected for this reason.

2.2.2 Field Procedures

Sediment samples were collected consistent with the approved Work Plan except for the following minor deviation, which was agreed to by the on-Site Ohio EPA representative.

Plastic 5-gallon buckets were not used to reduce surface water flow as this had not been done during previous MFLBC sampling events, and the logistics of transporting all the necessary equipment would have required many more trips through adjacent property owners' land and may have led to more disturbance of the sediment.

The field procedures for collecting sediment samples were as follows:

- Each sub-sample location was identified based on presence of fine-grained sediment, using results of prior Reconnaissance work to help locate sediment bodies
- Handheld GPS was used to mark sediment sub-sample location and to enter a sub-sample ID and description
- Decontaminated stainless steel spoon and bowl were used (new spool and bowl were used at the start of each new composite) to collect sub-samples. Decontamination included an initial water rub/rinse, cleaning with soapy water and rinse with tap water, rinse with distilled water, and final rinse with acetone.
- Large debris such as whole leaves and twigs were removed prior to homogenization
- Sub-sample homogenized thoroughly with previous sub-samples
- At completion of composite area, sample was thoroughly homogenized and then distributed into sampling containers (amber jar for mirex to avoid photo-degradation, clear jar for TOC, and 1-gallon zip-top bag for grain size)
- Sediment samples were transported under Chain of Custody to TA for analysis

2.3 MFLBC Floodplain Soil Sampling

2.3.1 Overview

The main objectives of the floodplain soil investigation were to refine the extent of mirex impacts and to characterize the physical conditions of the floodplain for design purposes. Composite samples were collected from ¼ acre and ½ acre areas within each 1-acre exposure unit and analyzed for mirex, TOC, and grain size distribution. As described in the ROD, the floodplain soil remedy is to be designed to achieve a SWAC of 1.0 mg/kg for each 1-acre exposure area. The results of the investigation will be used to determine how to achieve the clean-up level while protecting habitat to the maximum extent possible.

The sampling approach was designed to achieve a higher-density of samples than had previously been collected in the areas targeted for remediation, and to better represent appropriate exposure units. Horizontal composite soil samples were collected from approximately rectangular %-acre areas so that





there would be 4 samples for each 1-acre exposure unit area. Each ¼-acre sub-sample contained at least 5 grab samples from distinct locations within the area, so the overall exposure unit was represented by at least 20 samples. A total of 192 samples (not including duplicates and MS/MSDs) were collected: 63 ½-acre samples and 129 ¼-acre samples.

Aliquots of the homogenized soil from each pair of %-acre composite samples were combined into one %-acre primary sample. The %-acre composite samples were analyzed first, while the %-acre samples were archived at the laboratory⁴. The sequence for analysis of %-acre samples began with those areas in or immediately adjacent to previously sampled areas where the clean-up level was exceeded. Composite samples from adjacent ½-acre areas were initially archived. These samples were then analyzed sequentially beginning with those bordering the initial samples, followed by additional adjacent samples until a concentration below the clean-up level was measured across the entire floodplain width. Figures 10 and 11 show all samples collected, the samples that were analyzed, and those that remain archived. The ¼-acre composite samples were archived so that if significant areas of floodplain soil exceeded the cleanup level, then the area to be addressed could be refined. For example, if one ½-acre area was slightly above the cleanup level, then the two separate ¼-acre samples may be analyzed to determine if only a portion of that overall ½-acre was actually exceeding the cleanup goal, rather than the entire area. However, based on the results of the sampling program, it was not deemed necessary to analyze any of the archived ¼-acre samples. Table 3 provides a summary of all the areas sampled and the samples_analyzed at the laboratory. The analytical results are discussed in Section 3.3.

2.3.2 Field Procedures

Floodplain soil samples were collected consistent with the approved Work Plan except for the following minor deviations, which were agreed to by the on-Site Ohio EPA representative.

- Sub-sample locations were not homogenized in a separate bowl before being added to the composite. This was because a trowel was used for sampling, which achieved approximately an equal volume at each sample location. The entire composite sample was mixed after each discrete sub-sample was added so that a better homogenized sample would be achieved by the time the entire composite was collected.
- Only half of the proposed ½-acre area near RM 35.3 (FPS10-002) could be sampled because the southern half of that area is covered (paved) by a wastewater treatment facility associated with the adjacent mobile home park. Therefore, this area was represented by one ¼-acre sample (FPS10-002-01), which was analyzed immediately in place of the proposed ½-acre area sample.
- In addition to the area noted above, there was one additional ½-acre area for which a sample was not collected. After collecting the two ¼-acre samples within area FPS10-008 (i.e., FPS10-008-01 and FPS10-008-02), there was insufficient sample volume to prepare a composite ½-acre sample. Therefore, the separate ¼-acre samples were both analyzed in place of the ½-acre sample. This does not represent a significant deviation

⁴ Three ¼-acre samples were analyzed immediately because there was no associated ½-acre area sample available. More details are provided in Section 3.





from the work plan because the two adjacent 1/2-acre sample results can be mathematically averaged to indicate the concentration of the 1/2-acre area.

The field procedures for collecting sediment samples at each 1/4-acre composite area were as follows:

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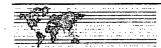
- At least five equal volume sub-samples were collected using decontaminated stainless steel trowels and placed in a decontaminated stainless steel bowl. Decontamination included an initial water rub/rinse, cleaning with soapy water and rinse with tap water, rinse with distilled water, and final rinse with acetone.
- At each sub-sample location the sampling equipment was advanced to a depth of approximately 6-inches below ground surface after surface vegetation and associated root matter was removed.
- Each sub-sample location was recorded using a handheld GPS device.
- Large debris items (such as rocks, twigs, and large roots) were removed prior to homogenization.
- Each sub-sample was homogenized thoroughly with previous sub-samples
- Remaining soil from the first ¼-acre sample within a given ½-acre area was held until sampling of the adjacent ¼-acre composite sample was collected.
- Each set of two adjacent homogenized ¼-acre composite samples were combined into one composite sample representing the associated ½-acre area.
- At completion of each composite area, samples were thoroughly homogenized and then distributed into sampling containers (amber jar for mirex to avoid photo-degradation, clear jar for TOC, and 1-gallon zip top plastic bag for grain size)
- Soil samples were transported under Chain of Custody to TA for analysis or archiving, as appropriate.

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2.4 MFLBC Fish Tissue Sampling

2.4.1 Overview

The purpose of the fish tissue investigation, as noted in the SOW, was to provide a baseline sampling event consistent with the anticipated long-term fish tissue monitoring program. Seven locations were selected for fish tissue sampling: RM 38.4, RM 37.5, RM 36.7, RM 35.4, RM 33.3, RM 32.0, and RM 12.5. The stations at RM 38.4 and RM 12.5 were chosen as upstream and downstream reference points, respectively, to compare with data from within the reach of concern (i.e., between RM 31.0 and RM 37.6). As explained in the Work Plan, the final sampling locations and number of samples collected were contingent upon access limitations. The upstream and downstream ends of each sampling reach were recorded using a handheld GPS device (see Figure 2). Based on the Ohio EPA's recommendations (see Appendix C of the Work Plan), three resident fish species were targeted for sampling and analysis at each location: common carp, yellow bullhead, and white sucker. The post-remediation, long-term sampling program is anticipated to begin no sooner than 5 years after construction completion. Therefore, in order to be consistent with the long-term data, fish between the ages of 3 and 5 years old (as determined by fish length) were targeted. For each individual fish, the fillet and offal (i.e., all parts of the fish after the fillet is removed) were collected. This sampling approach was used because potential



human exposures are assessed based on fillet data, whereas potential wildlife exposures are based on the whole-body fish tissue. Because laboratory analysis of fillet and whole-body samples from identical fish is not possible, the fillet and offal were analyzed separately so that whole body concentrations could be calculated. By obtaining fillet and whole body data from the same fish, it may be possible to reduce the sampling program in the future (e.g., if a reliable fillet to whole body concentration ratio can be determined, then only fillets may be collected in the future). The only deviations from the proposed sampling program resulted from a lack of certain species at some sampling stations and/or fish sometimes being outside the targeted size range. Table 4 provides a summary of the fish tissue samples collected, including number of fish, lengths and (field-measured) weights of fish.

2.4.2 Field Procedures

Sampling procedures used were consistent with the proposed methods in the Work Plan. At each sampling station, fish were collected using a boat-mounted electroshocker (moving from downstream to upstream so as to limit the disturbance of sediment and fish prior to collection, when possible) by a joint sampling team comprising Ohio EPA and Golder personnel. During electroshocking, fish of the target species were collected into a 5-gallon plastic bucket (or similar suitable container) filled with stream water for temporary containment. After the entire target stream station had been sampled, the fish were taken to a sample preparation area.

When sufficient fish were present, composite samples (by species) were collected using a minimum of three fish⁵ within the appropriate size range for that species (see Appendix C of the Work Plan). Fish samples were filleted in the field after the length and weight were measured and recorded. Fillet samples and the remaining offal were wrapped separately in clean aluminum foil, placed in sealed plastic bags, and stored on dry ice. Common carp, yellow bullhead, and white sucker were all filleted with the skin off, consistent with Ohio EPA's fish tissue monitoring program. Decontaminated stainless steel fillet knives were used for each sample. Decontamination included an initial water rub/rinse, cleaning with soapy water, rinse with distilled water, and final rinse with acetone. Fillet boards were covered with clean aluminum foil for each sample. Latex/nitrile gloves were worn while processing fillet samples, and were changed between each sample. Fillet samples were rinsed in river water prior to placing on clean aluminum foil. Sampling protocols followed those listed in the Ohio EPA Fish Tissue Guidance Manual (Ohio EPA, 2004); however, it was not necessary to decontaminate aluminum foil that was used directly from the roll. All samples were placed on dry ice and were transported via courier to the laboratory under chain of custody for preparation/homogenization. Prior to preparation/homogenization of the samples at the laboratory, the laboratory weighed the fillet and offal samples separately to obtain total sample mass values for later use in calculating the whole-body mirex and lipid concentrations. Fish samples were analyzed by Ohio EPA's DES laboratory located in Reynoldsburg, Ohio.

⁵ Although a minimum of three fish is optimal, final decisions regarding which samples to analyze were made after all stations had been sampled. In some cases, samples were analyzed even when they did not comprise tissue from three fish.





3.0 OU-3 SAMPLING RESULTS

The PDI sampling program achieved the stated goals in the SOW and Work Plan. Although there were some deviations from the proposed sampling program, sufficient data were collected to allow for remedial design to move forward and to provide a baseline sampling round prior to remedial action.

Complete laboratory analytical results are provided on disk in Appendix B.

3.1 Data Validation

Sample holding times were met for all samples and no data were rejected during data validation. A Data Quality Assessment describing the findings of the data validation is provided in Appendix C and data are summarized in tables for the various MFLBC media as described below.

3.2 MFLBC Sediment Analytical Results

A total of 49 sediment samples were collected (not including duplicates and MS/MSDs⁶), 44 of which were analyzed by TA for mirex, TOC, and grain size (the remaining samples were archived). In addition, there were four field duplicate samples analyzed. The validated analytical results are shown in Table 5.

3.2.1 Discussion of Mirex Results

Mirex concentrations ranged from non-detect to 1.1 mg/kg, with only 6 of 49 individual samples exceeding the SWAC-based cleanup level of 0.5 mg/kg. The highest mirex concentrations were found in samples from RM 35.4 and RM 34.9, which are in the area where mirex has previously been detected at elevated concentrations in both sediment and floodplain soil. However, the extent of mirex impacts above the cleanup level was found to be lower than in previous sampling events. This data suggests improvement in sediment mirex conditions over time, which is supported by the fish tissue results as discussed in Section 3.4. A graph showing maximum detected sediment concentrations throughout the MFLBC in multiple sampling events is provided as Figure 12.

3.2.2 Surface-Weighted Average Concentration for Mirex in Sediment

Surface-weighted average concentrations (SWAC) for mirex in MFLBC sediment were calculated by using the tabulated sediment body areas from the Reconnaissance as well as additional areas identified during PDI sampling (see Table 6). For each 0.1 RM area sampled, the total surface area of sampled sediment bodies was calculated as the sum of all the individual sediment body surface areas. This total surface area was then multiplied by the mirex concentration from the composite sediment sample for that 0.1 river mile segment. Adjacent segments were then grouped into one river mile exposure units as follows: RM 31.1 thru 32.0; RM 32.1 thru 33.0; RM 33.1 thru 34.0; RM 34.5 thru 35.4; RM 35.5 thru 36.4;

⁸ For the purposes of the discussion in this section, generalizations about ranges of mirex concentrations and number of samples above certain concentrations include either the primary sample result or the field duplicate result (for locations where duplicates were collected), whichever was higher.



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and RM 36.7 thru 37.6. Note that RM 34.1 thru RM 34.4 was not included in any of the segments because there was only one result from this reach and the concentration was very low (0.016 mg/kg). Therefore, it was more protective to consider a segment that included the two highest detections of mirex, which were at RM 35.4 and RM 34.9. In addition, the reach from RM 36.5 to RM 36.6 was not included in any of the segments as there were no samples collected from this area (access was not granted by the property owner).

The calculated SWAC mirex concentrations for sediment are provided in Table 7. As shown on the table, only one segment – RM 34.5 through RM 35.4 – had a SWAC concentration above the cleanup goal of 0.5 mg/kg. This river mile segment included the two highest detected mirex concentrations in sediment and it spans an area where floodplain soil mirex concentrations also exceed the Site cleanup level for that medium. The rest of the exposure units had mirex SWACs ranging from 0.0564 mg/kg to 0.219 mg/kg.

3.3 MFLBC Floodplain Soil Analytical Results

A total of 192 floodplain soil samples (not including field duplicates and MS/MSDs⁶) were collected (63 from ½-acre composite areas, and 129 from the ¼-acre composite sub-areas). Of the 192 samples, 52 were analyzed for mirex, TOC, and grain size and the rest were archived (some of the analyzed samples were initially archived but were later analyzed). The majority of the ¼-acre composite area samples were archived, but three were analyzed due to a lack of an associated half-acre sample. In addition, there were nine field duplicate samples analyzed. The validated analytical results are shown in Table 8.

3.3.1 Discussion of Mirex Results

Mirex concentrations in floodplain soil samples ranged from 0.0086 to 1.400 mg/kg. Out of 52 samples analyzed, only seven exceeded the cleanup goal of 1.0 mg/kg. The average concentration of all analyzed samples was 0.591 mg/kg.

3.3.2 Calculation of Exposure Unit (1-acre) Concentrations

For areas where the mirex concentration for a ½-acre sample exceeded the clean level of 1.0 mg/kg, a 1-acre exposure unit SWAC was calculated by averaging that ½-acre sample result with the adjacent ½ acre area sample with the highest mirex concentration (for example, FPS10-20 was combined with FPS10-21). The combinations of ½-acre sample areas to create 1-acre exposure units are shown on Figures 10 and 11. As shown on the figures, there are four (4) 1-acre exposure areas that have a mirex concentration above the cleanup goal of 1.0 mg/kg.

⁷ Previous discrete sampling results were not used in developing exposure area concentrations. The PDI sampling was designed to provide reliable surface weighted average concentrations consistent with the ROD cleanup goals and so replace previous sampling results.



11



3.4 MFLBC Fish Tissue Analytical Results

Ohio EPA's laboratory homogenized the samples, and analyzed a total of 12 fillet, 12 offal, and 1 whole body⁸ samples for mirex and percent lipids. Analytical results for fish tissue samples are provided in Table 9.

3.4.1 Discussion of Fillet and Offal Mirex and Lipid Results

Mirex concentrations in fillet samples ranged from non-detect (at the upstream sampling location) to 1.22 mg/kg. Out of 12 fillet samples analyzed, eight had mirex concentrations below Ohio's unrestricted consumption advisory level of 0.2 mg/kg. Two of the four samples that exceeded 0.2 mg/kg were fillet samples from common carp that were above the target size range, suggesting that these fish have been in the system for more than 5 years, and so they may not be representative of current exposure conditions. For example, the highest fillet mirex concentration (1.22 mg/kg) was detected in the common carp sample from RM 33.3, which was a composite sample that included two fish greater than 580 millimeters (mm) long, which is over 30% longer than the 5-year old size limit specified by Ohio EPA for common carp (440 mm). The arithmetic average mirex concentration in fillet samples (using ½ the detection limit for the non-detect results) is 0.272 mg/kg, while the average concentration excluding the highest common carp sample result is 0.186 mg/kg, below the unrestricted consumption level. A graph showing maximum detected fillet mirex concentrations throughout the MFLBC in multiple sampling events is provided as Figure 13. Figure 14 compares fillet results from 2005 and 2010 from the same species and sampling locations and shows lower concentrations in 2010 in every case, even for common carp that exceeded the approximately 5-year old size.

Lipid content in fillet samples ranged from 0.437% to 3.31%. Lipid content was not strongly correlated with mirex concentration. The fillet sample with the highest lipid content was from a common carp collected near Lisbon Dam (at RM 12.5), which is in an area with very low mirex concentration in sediment; as a result, mirex concentrations in fish are also low.

Offal results typically had both higher lipid content and higher mirex concentrations, as expected. Mirex concentrations in offal samples ranged from non-detect (at the upstream sample location) to 3.38 mg/kg. Similar to the fillet samples, the highest mirex concentration occurred in the common carp sample from RM 33.3, which was well above the 5-year old size limit targeted for collection in the PDI. Lipid content in offal samples ranged from 1.18% to 8.69%.

Leila

⁶ The yellow bullhead fish collected at RM 36.7 were too small to fillet, so this sample was submitted as a whole body fish tissue sample.



3.4.2 Whole Body Fish Tissue Concentrations

Whole body fish tissue concentrations were calculated using the formula below:

$$WBC = \frac{(FC \times FM) + (OC \times OM)}{(FM + OM)}$$

where:

WBC = whole body concentration (lipid or mirex) (mg/kg or %)

FC = concentration in the fillet sample (mg/kg or %)

FM = total mass of the fillet sample (kg)

OC = concentration in the offal sample (mg/kg or %)

OM = total mass of the offal sample (kg)

Fillet and offal mass were recorded both in the field and at the analytical laboratory. Table 10 provides a summary of the measured mass of each sample. As shown on the table, there was generally very good correlation between field-measured and laboratory-measured masses. For the purpose of whole body concentration calculations, the more precise laboratory-reported mass values were used. Table 11 provides the calculated whole body fish tissue mirex concentrations and % lipids. An example of the calculation for mirex is provided below for white suckers at RM 33.3.

White Sucker Fillet at RM 33.3 (FT10-33.3-WS-F)

Mirex \rightarrow FC = 0.130 mg/kg

White Sucker Offal at RM 33.3 (FT10-33.3-WS-O)

Mass \rightarrow FM = 0.292 kg

Mirex \rightarrow OC = 1.02 mg/kg

Mass \rightarrow OM = 0.890 kg

WBC (mirex) = (0.130 * 0.292 + 1.02 * 0.890) / (0.292 + 0.890) = (0.94576 mg)/(1.182 kg) = 0.800 mg/kg

Table 11 also provides values for whole body-to-fillet mirex and lipid ratios. These ratios suggest a strong correlation (correlation coefficient = 0.80 for detected results) between the lipid and mirex ratios, which is to be expected given that mirex tends to partition into lipids. In other words, the ratio of whole body mirex concentration to fillet mirex concentration is strongly correlated with the ratio of lipid content between whole body and fillets from the same fish.

Out of 13 calculated whole body concentrations, only one exceeds the Lowest Observed Adverse Effect Level (LOAEL)-based target tissue concentration based on ecological risk (1.54 mg/kg), which was the basis for establishing the sediment cleanup goal in the ROD. The one sample that was above 1.54 mg/kg was from a common carp sample that was well above the target size range, indicating that this carp is not representative of current fish exposures. A graph showing maximum detected whole body fish mirex concentrations throughout the MFLBC in multiple sampling events is provided as Figure 15.



4.0 CONCLUSIONS

The Pre-Design Investigation achieved the goals of providing comprehensive physical and chemical data to design a remedial action that will achieve remedial action objectives for OU-3. In addition, the results of the PDI show that there has been significant natural recovery within the system over the past 5 years since the last sampling event. The following conclusions can be drawn regarding sediment, floodplain soil, and fish tissue:

- Sediment: A single 1-mile exposure unit within MFLBC exceeds the Site-specific SWAC cleanup goal of 0.5 mg/kg mirex. The reach that exceeds 0.5 mg/kg extends from RM 34.5 to RM 35.4, although the concentration is driven by two sampling areas at RM 34.9 and RM 35.4. Removal of sediment at RM 35.4 will bring the SWAC concentration in this river mile to below the cleanup goal.
- Floodplain Soil: There are four 1-acre exposure units in the floodplain of the MFLBC that have mirex concentrations exceeding the Site-specific SWAC cleanup goal of 1.0 mg/kg. These four exposure units are driven by six half-acre composite sampling areas. Removal of these six half-acre areas will achieve the cleanup goal throughout the floodplain.
- Fish: With the exception of one common carp sample at RM 33.3, all whole body fish tissue mirex concentrations were below the LOAEL-based target tissue concentration to achieve acceptable ecological risk. Excluding that same common carp sample, which was not representative of current exposure conditions, the average mirex concentration in fish fillet tissue is below the unlimited consumption level of 0.200 mg/kg specified by Ohio EPA's fish tissue advisory program. In addition, fillet samples collected in 2010 show significant decreases in mirex concentrations compared to the same species collected in 2005 at the same locations.





5.0 REFERENCES

Ohio EPA 2004. State of Ohio Cooperative Fish Tissue Monitoring Program Fish Collection Guidance Manual.

Golder, 2010. PDI Work Plan for Operable Unit 3 Nease Chemical Company Salem Ohio. Golder Associates, August 2010.

32.1

32.2

32.3

1

2

Table 1 MFLBC Sediment Sampling Program Summary PDI Technical Memorandum Nease Chemical Site OU3. Columbiana and Mahoning Counties. Ohio

| PDI | Work Plan Anticipated Sa | ampling Program | Field Sampling Program | | |
|---|--------------------------|---|--------------------------|---------------|--|
| River Mile ¹ Anticipated Number of Composite Fine-Grained Sediment Samples | | Notes | Samples Collected | Sampling Date | Explanation of Deviations |
| 31.1 | 2 | one sample from each side along stream bank | 1 fine-grained | Wed. 9/8/10 | East side of stream had only one small area of fine-grained sediment, while the western side had several locations. The one small area on the eastern side was near one of the sediment locations on the western side, so it was incorporated into the sample from the western side. |
| 31.2 | 1 | | 1 fine-grained | Wed. 9/8/10 | none |
| 31.3 | 2 | one sample from 0-6" and one sample from 6-12" | 1 fine-grained | Wed. 9/8/10 | Deeper material was significantly coarser than originally described during the reconnaissance in 2009, so a deeper sample was not collected. |
| 31.4 | 1 | ` | 1 fine-grained | Wed. 9/8/10 | none |
| 31.5 | • | no fine-grained sediment identified in this segment | 0 | Wed. 9/8/10 | none |
| 31.6 | - | no fine-grained sediment identified in this segment | 0 | Wed. 9/8/10 | none |
| 31.7 | 1 | | 1 fine-grained | Wed. 9/8/10 | none |
| 31.8 | 2 | one sample from 0-6" and one sample from 6-12" | 1 fine-grained | Wed. 9/8/10 | Deeper material was significantly coarser than originally described during the reconnaissance in 2009, so a deeper sample was not collected. |
| 31.9 | 2 | one sample from 0-6" and one sample from 6-12" | 1 coarse sample | Wed. 9/8/10 | Fine-grained sediment sample planned, but encountered only sand-dominated sediment. Sample collected, but will be archived as coarse sample. |
| 32.0 | i | | 1 fine-grained, 1 coarse | Wed. 9/8/10 | Coarse-grained sample collected due to significant deposit of fine-grained sediment slightly upstream under bridge. |
| 32.1 | | no fine-grained sediment identified | 1 fine-grained | Thurs. 9/9/10 | Additional, small area of fine-grained |

1 fine-grained

1 fine-grained

1 fine-grained

Thurs. 9/9/10

Thurs. 9/9/10

Thurs. 9/9/10



sediment encountered and sampled.

none One sample was anticipated in the "new"

channel dug by property owner, but current

conditions are coarse sand.

in this segment

one sample from each side along

stream bank

Table 1 MFLBC Sediment Sampling Program Summary **PDI Technical Memorandum**

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| PDI Work Plan Anticipated Sampling Program | | | Field Sampling Program | | |
|---|---|---|-------------------------------------|---------------|---|
| River Mile ¹ Anticipated Number of Composite Fine-Grained Sediment Samples | | Notes | Samples Collected | Sampling Date | Explanation of Deviations |
| 32.4 | no fine-grained sediment identified in this segment | | 0 | Thurs. 9/9/10 | none |
| 32.5 | - | no fine-grained sediment identified in this segment | 0 | Thurs. 9/9/10 | none |
| 32.6 | - | no fine-grained sediment identified in this segment | 0 | Thurs. 9/9/10 | none |
| 32.7 | - | no fine-grained sediment identified in this segment | 0 | Thurs. 9/9/10 | none |
| 32.8 | - | no fine-grained sediment identified in this segment | 0 | Thurs. 9/9/10 | none |
| 32.9 | 1 | | 1 fine-grained, 1 coarse | Thurs. 9/9/10 | selected for coarse-grained sample because in area of historically high mirex in floodplain |
| 33.0 | 1 | · | 1 fine-grained | Thurs. 9/9/10 | none |
| 33.1 | 2 | one sample from each side along stream bank | 1 fine-grained, plus 1 duplicate | Thurs. 9/9/10 | Significant deposit along downstream left bank and a very small pocket of a thin layer on downstream right bank. The small area was simply incorporated into the sample (not large enough to justify a separate sample) |
| 33.2 | 1 | | 1 fine-grained | Mon. 9/13/10 | none |
| 33.3 | - | no fine-grained sediment identified in this segment | 0 | Mon. 9/13/10 | none |
| 33.4 | - | no fine-grained sediment identified in this segment | 0 | Mon. 9/13/10 | none |
| 33.5 | 1 | Although fine-grained sediment was not identified in this segment during the Reconnaissance, one sample will be collected for confirmation purposes based on the detection of mirex in the 2005 sampling event. | 1 fine-grained | Mon. 9/13/10 | none |
| 33.6 | 1 | | 1 fine-grained | Mon. 9/13/10 | Majority of sediment was along right-hand side of stream (deepest depth = 2") |



Table 1 MFLBC Sediment Sampling Program Summary PDI Technical Memorandum

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| PDI Work Plan Anticipated Sampling Program | | | Field Sampling Program | | |
|--|---|--|---|---------------|--|
| River Mile ¹ | Anticipated Number of Composite Fine-Grained Notes Samples Collected Sampling Date Sediment Samples | | Explanation of Deviations | | |
| 33.7 | - | no fine-grained sediment identified in this segment | 1 fine-grained, plus 1 duplicate | Mon. 9/13/10 | Fine-grained sediment was encountered in this reach during the PDI, so a sample was collected |
| 33.8 | 1 | | 1 fine-grained, 1 coarse | Mon. 9/13/10 | Location selected for coarse-grained sample |
| 33.9 | 1 | | 1 fine-grained | Mon. 9/13/10 | none |
| 34.0 | - | no fine-grained sediment identified in this segment | 0 | Mon. 9/13/10 | none |
| 34.1 | - | no fine-grained sediment identified in this segment | 0 | Mon. 9/13/10 | none |
| 34.2 | 1 | | 0 | Mon. 9/13/10 | No fine-grained sediment bodies present |
| 34.3 | 1 | | 0 | Mon. 9/13/10 | No fine-grained sediment bodies present |
| 34.4 | 2 | one sample from each side along stream bank | 1 fine-grained | Tues. 9/14/10 | Majority of sediment was along downstream left-hand side of stream, so all areas were composited into one sample |
| 34.5 | 1 | | 1 fine-grained | Tues. 9/14/10 | none |
| 34.6 | 2 | one sample from each side along stream bank | 1 fine-grained | Tues. 9/14/10 | Majority of sediment was along downstream left-hand side of stream, so all areas were composited into one sample |
| 34.7 | 1 | | 0 | Tues. 9/14/10 | No fine-grained sediment bodies present |
| 34.8 | 1 | | 1 fine-grained plus 1 MS/MSD (double volume) | Tues. 9/14/10 | none |
| 34.9 | 1 | | 1 fine-grained | Tues. 9/14/10 | none |
| 35.0 | 1 | | 0 | Tues. 9/14/10 | No fine-grained sediment bodies present |
| 35.1 | 3 | one sample from each side along stream bank, plus one deep sample from 6-12" | 1 fine-grained | Tues. 9/14/10 | Majority of sediment was along downstream right-hand side of stream and the deepest depth encountered was 2" |
| 35.2 | 1 . | | 1 fine-grained | Tues. 9/14/10 | Majority of sediment was along downstream left-hand side of stream, so all areas were composited into one sample |



Table 1 MFLBC Sediment Sampling Program Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| PDI V | PDI Work Plan Anticipated Sampling Program | | | Field Sampling Program | | |
|-------------------------|---|---|---|------------------------|--|--|
| River Mile ¹ | Anticipated Number of Composite Fine-Grained Sediment Samples | Notes | Samples Collected | Sampling Date | Explanation of Deviations | |
| 35.3 | 35.3 | | 0 | Tues. 9/14/10 | Not enough sediment to sample; small amount of silt with some fine sand downstream from outfall, but likely a continuation of same sediment body as the one sampled in RM 35.2 | |
| 35.4 | - | no fine-grained sediment identified in this segment | 1 coarse sample | Tues. 9/14/10 | This location selected for coarse-grained sediment sample given historic detections of mirex in this general area | |
| 35.5 | - | no fine-grained sediment identified in this segment | К | endall property - no a | ccess agreement | |
| 35.6 | - | no fine-grained sediment identified in this segment | К | endall property - no a | ccess agreement | |
| 35.7 | 2 | one sample from each side along stream bank | 1 fine-grained | Wed. 9/15/10 | Majority of sediment was along downstream right-hand side of stream | |
| 35.8 | 1 | | 1 fine-grained | Wed. 9/15/10 | none | |
| 35.9 | 1 | | 1 fine-grained | Wed. 9/15/10 | none | |
| 36.0 | 2 | one sample from each side along stream bank | 1 fine-grained | Wed. 9/15/10 | Majority of sediment was along downstream left-hand side of stream, so all areas were composited into one sample | |
| 36.1 | 1 | | 1 fine-grained, plus 1 duplicate, 1 coarse | Wed. 9/15/10 | none; this area selected for coarse-grained sediment sample | |
| 36.2 | 1 | | 1 fine-grained plus 1 MS/MSD (triple volume) | Wed. 9/15/10 | попе | |
| 36.3 | 2 | one sample from each side along stream bank | 1 fine-grained | Wed. 9/15/10 | Majority of sediment was along downstream left-hand side of stream, so all areas were composited into one sample | |
| 36.4 | 2 | one sample from each side along stream bank | 1 fine-grained | Wed. 9/15/10 | Majority of sediment was along downstream left-hand side of stream, so all areas were composited into one sample | |
| 36.5 | 1 | | S | tainer property - no a | ccess agreement | |
| 36.6 | - | no fine-grained sediment identified in this segment | Stainer property - no access agreement | | | |



MFLBC Sediment Sampling Program Summary PDI Technical Memorandum

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| PDI Work Plan Anticipated Sampling Program | | | Field Sampling Program | | |
|--|---|--|--|-----------------------|---|
| River Mile ¹ | Anticipated Number of Composite Fine-Grained Sediment Samples | Notes | Samples Collected | Sampling Date | Explanation of Deviations |
| 36.7 | 36.7 2 one sample from each side along stream bank | | 1 fine-grained | Tues. 9/14/10 | Majority of sediment was along left-hand side of stream (deepest depth = 2"), including two 20' areas |
| 36.8 | 2 | one sample from each side along stream bank | S | chrader property - no | access agreement |
| 36.9 | 2 | one sample from each side along stream bank | S | chrader property - no | access agreement |
| 37.0 | 2 | one sample from each side along stream bank | 1 fine-grained | Wed. 9/15/10 | Even amount of sediment along both sides of stream, but relatively straightforward access for both sides |
| 37.1 | 1 | | 1 fine-grained | Wed. 9/15/10 | none |
| 37.2 | 2 | one sample from each side along stream bank | 1 fine-grained | Wed. 9/15/10 | Even amount of sediment along both sides of stream, but relatively straightforward access for both sides |
| 37.3 | 2 | one sample from each side along stream bank | 1 fine-grained plus 1 MS/MSD (triple volume) Thurs. 9/16/10 | | Majority of sediment was along downstream right-hand side of stream, so all areas were composited into one sample |
| 37.4 | 1 | | 1 fine-grained | Thurs. 9/16/10 | none |
| 37.5 | 1 | : | 1 fine-grained, plus 1 duplicate | Thurs. 9/16/10 | none |
| 37.6 | 1 | | 1 fine-grained, 1 coarse | Thurs. 9/16/10 | none |

Notes:

(1) The stream has been segmented into 0.1 RM lengths and river mile designations refer to the entire 0.1 RM segment starting with the given river mile point and extending downstream to the next river mile point. For example, the 0.1 RM segment from RM 35.4 to RM 35.3 has been assigned a RM value of 35.4, representing the upstream end of the segment.



Table 2 MFLBC Fine-Grained Sediment Sub-Sample Location Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| RM | Sediment Point ID | Associated Composite Sample ID | Easting (ft) | Northing (ft) |
|------|-------------------|---------------------------------------|--------------|---------------|
| 31.1 | SD10-31.1R-01 | | 2426076 | 477736 |
| 31.1 | SD10-31.1R-02 | | 2426085 | 477754 |
| 31.1 | SD10-31.1R-03 | SD10-31.1R | 2426083 | 477775 |
| 31.1 | SD10-31.1R-04 | 30 10-31.1K | 2426096 | 477784 |
| 31.1 | SD10-31.1R-05 | | 2426084 | 477804 |
| 31.1 | SD10-31.1R-06 | | 2426115 | 477820 |
| 31.2 | SD10-31.2-03 | - | 2426161 | 478100 |
| 31.2 | SD10-31.2L-01 | SD10-31.2L | 2426150 | 478117 |
| 31.2 | SD10-31.2L-02 | 3D10-31.2L | 2426162 | 478113 |
| 31.2 | SD10-31.2L-04 | | 2426099 | 478137 |
| 31.3 | SD10-31.3L-03 | | 2425638 | 478145 |
| 31.3 | SD10-31.3R-01 | | 2425876 | 478206 |
| 31.3 | SD10-31.3R-02 | SD10-31.3R | 2425840 | 478310 |
| 31.3 | SD10-31.3R-04 | 30 IU-31.3K | 2425616 | 478121 |
| 31.3 | SD10-31.3R-05 | | 2425596 | 478134 |
| 31.3 | SD10-31.3R-06 | | 2425480 | 478205 |
| 31.4 | SD10-31.4R-01 | | 2425326 | 478271 |
| 31.4 | SD10-31.4R-02 | SD10-31.4R | 2425276 | 478187 |
| 31.4 | SD10-31.4R-03 | 3D10-31.4K | 2425071 | 478084 |
| 31.4 | SD10-31.4R-04 | | 2425023 | 478196 |
| 31.7 | SD10-31.7L-01 | · · · · · · · · · · · · · · · · · · · | 2424207 | 478027 |
| 31.7 | SD10-31.7L-02 | | 2424091 | 478010 |
| 31.7 | SD10-31.7L-03 | SD10-31.7L | 2424074 | 478014 |
| 31.7 | SD10-31.7L-04 | · | 2424048 | 478021 |
| 31.7 | SD10-31.7L-05 | | 2423894 | 478026 |
| 31.8 | SD10-31.8L-01 | | 2423764 | 478157 |
| 31.8 | SD10-31.8L-02 | SD10-31.8 | 2423754 | 478199 |
| 31.8 | SD10-31.8L-03 | 3010-31.0 | 2423736 | 478216 |
| 31.8 | SD10-31.8R-01 | | 2423669 | 478132 |
| 32.0 | SD10-32.0L-01 | ** • | 2422790 | 478354 |
| 32.0 | SD10-32.0L-02 | SD10-32.0 | 2422565 | 478439 |
| 32.0 | SD10-32.0R-01 | | 2422499 | 478447 |
| 32.1 | SD10-32.1R-01 | SD10-32.1R | 2422283 | 478641 |
| 32.2 | SD10-32.2L-01 | SD10-32.2L | 2421894 | 478948 |
| 32.3 | SD10-32.3L-01 | | 2421696 | 478995 |
| 32.3 | SD10-32.3L-02 | | 2421642 | 479000 |
| 32.3 | SD10-32.3L-03 | SD10-32.3L | 2421608 | 479013 |
| 32.3 | SD10-32.3L-04 | 3D 10-32.3E | 2421589 | 479006 |
| 32.3 | SD10-32.3L-06 | | 2421515 | 478984 |
| 32.3 | SD10-32.3R-04 | | 2420626 | 475949 |



Table 2 MFLBC Fine-Grained Sediment Sub-Sample Location Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| RM | Sediment Point ID | Associated Composite Sample ID | Easting (ft) | Northing (ft) |
|------|-------------------|--------------------------------|--------------|---------------|
| 32.9 | SD10-32.9L-02 | | 2421356 | 476530 |
| 32.9 | SD10-32.9R-01 | SD10-32.9C | 2421310 | 476765 |
| 33.0 | SD10-33.0R-01 | SD10-33.0R | 2421286 | 476059 |
| 33.1 | SD10-33.1-04 | | 2420827 | 476249 |
| 33.1 | SD10-33.1L-01 | | 2420989 | 476304 |
| 33.1 | SD10-33.1L-02 | | 2420876 | 476279 |
| 33.1 | SD10-33.1L-03 | SD10-33.1L | 2420862 | 476272 |
| 33.1 | SD10-33.1L-05 | | 2420805 | 476238 |
| 33.1 | SD10-33.1L-06 | • | 2420828 | 476215 |
| 33.2 | SD10-33.2L-01 | | 2420765 | 476205 |
| 33.2 | SD10-33.2L-02 | | 2420717 | 476170 |
| 33.2 | SD10-33.2L-03 | | 2420706 | 476149 |
| 33.2 | SD10-33.2L-04 | SD10-33.2L | 2420659 | 476105 |
| 33.2 | SD10-33.2L-06 | · | 2420629 | 476044 |
| 33.2 | SD10-33.2L-07 | | 2420601 | 475971 |
| 33.2 | SD10-33.2L-08 | | 2420555 | 475880 |
| 33.2 | SD10-33.2R-01 | | 2420657 | 476022 |
| 33:2 | SD10-33.2R-02 | 0040 00 0 | 2420657 | 475996 |
| 33.2 | SD10-33.2R-03 | SD10-33.2L | 2420628 | 475969 |
| 33.2 | SD10-33.2R-04 | | 2420553 | 475748 |
| 33.5 | SD10-33.5L-01 | | 2420015 | 474893 |
| 33.5 | SD10-33.5L-02 | | 2419828 | 474974 |
| 33.5 | SD10-33.5L-03 | SD10-33.5 | 2419806 | 474967 |
| 33.5 | SD10-33.5R-01 | 3010-33.5 | 2419923 | 474924 |
| 33.5 | SD10-33.5R-02 | a | 2419851 | 474956 |
| 33.5 | SD10-33.5R-03 | | 2419759 | 474953 |
| 33.6 | SD10-33.6L-01 | | 2419209 | 474859 |
| 33.6 | SD10-33.6L-02 | | 2419166 | 474820 |
| 33.6 | SD10-33.6R-01 | SD10-33.6R | 2419540 | 474901 |
| 33.6 | SD10-33.6R-02 | 3D 10-33.0K | 2419528 | 474898 |
| 33.6 | SD10-33.6R-03 | | 2419167 | 474728 |
| 33.6 | SD10-33.6R-04 | | 2419164 | 474726 |
| 33.7 | SD10-33.7R-01 | SD10-33.7R | 2419027 | 474200 |
| 33.7 | SD10-33.7R-02 | OD 10-00,710 | 2419099 | 474191 |
| 33.8 | SD10-33.8L-01 | SD10-33.8R | 2419034 | 473867 |
| 33.8 | SD10-33.8R-01 | | 2419220 | 474110 |
| 33.9 | SD10-33.9R-01 | | 2419026 | 473622 |
| 33.9 | SD10-33.9R-02 | SD10-33.9R | 2419032 | 473654 |
| 33.9 | SD10-33.9R-03 | | 2418957 | 473447 |



Table 2 MFLBC Fine-Grained Sediment Sub-Sample Location Summary PDI Technical Memorandum

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| RM | Sediment Point ID. | Associated Composite Sample ID | Easting (ft) | Northing (ft) |
|------|--------------------|-----------------------------------|--------------|---------------|
| 34.4 | SD10-34.4L-01 | | 2416794 | 472636 |
| 34.4 | SD10-34.4L-02 | SD10-34.4L | 2416438 | 472444 |
| 34.4 | SD10-34.4L-03 | 3D10-34.4L | 2416445 | 472377 |
| 34.4 | SD10-34.4R-01 | | 2416698 | 472554 |
| 34.5 | SD10-34.5R-01 | SD10-34.5R | 2416863 | 472084 |
| 34.6 | SD10-34.6L-01 | | 2416831 | 471898 |
| 34.6 | SD10-34.6L-02 | SD10-34.6L | 2416753 | 471745 |
| 34.6 | SD10-34.6L-03 | | 2416865 | 471591 |
| 34.8 | SD10-34.8R-01 | SD10 24 9B | 2416796 | 471277 |
| 34.8 | SD10-34.8R-02 | SD10-34.8R | 2416663 | 470982 |
| 34.9 | SD10-34.9L-01 | | 2416456 | 470942 |
| 34.9 | SD10-34.9L-02 | SD10-34.9L | 2416434 | 470921 |
| 34.9 | SD10-34.9L-03 | SD10-34.9L | 2416330 | 470837 |
| 34.9 | SD10-34.9R-01 | | 2416404 | 470862 |
| 35.1 | SD10-35.1L-01 | | 2416472 | 469907 |
| 35.1 | SD10-35.1R-01 | SD10-35.1R | 2416515 | 470008 |
| 35.1 | SD10-35.1R-02 | 5D10-35.1K | 2416506 | 469968 |
| 35.1 | SD10-35.1R-03 | | 2416506 | 469921 |
| 35.2 | SD10-35.2L-01 | | 2416265 | 469459 |
| 35.2 | SD10-35.2L-02 | SD10-35.2L | 2416248 | 469456 |
| 35.2 | SD10-35.2R-01 | 3D10-33.2L | 2416190 | 469422 |
| 35.2 | SD10-35.2R-02 | | 2416174 | 469418 |
| 35.7 | SD10-35.7R-01 | SD10-35.7R | 2415130 | 467873 |
| 35.9 | SD10-35.9R-01 | SD10-35.9R | 2415354 | 467376 |
| 36.0 | SD10-36.0L-01 | | 2415411 | 467149 |
| 36.0 | SD10-36.0L-02 | SD10-36.0L | 2415537 | 466999 |
| 36.0 | SD10-36.0L-02 | | 2415417 | 467048 |
| 36.1 | SD10-36.1L-01 | SD10-36.1L | 2415227 | 466734 |
| 36.1 | SD10-36.1L-02 | 3D 10-30. TL | 2415239 | 466699 |
| 36.2 | SD10-36.2R-01 | SD10-36.2R | 2415362 | 465995 |
| 36.3 | SD10-36.3L-01 | · · · - | 2415269 | 465886 |
| 36.3 | SD10-36.3L-02 | SD10-36.3L | 2415244 | 465893 |
| 36.3 | SD10-36.3L-03 | 0 D 10-00.0L | 2415168 | 465955 |
| 36.3 | SD10-36.3R-01 | | 2415198 | 465901 |
| 36.4 | SD10-36.4L-01 | | 2414874 | 466241 |
| 36.4 | SD10-36.4L-02 | | 2414820 | 466234 |
| 36.4 | SD10-36.4L-03 | SD10-36.4L | 2414755 | 466093 |
| 36.4 | SD10-36.4L-04 | | 2414591 | 465985 |
| 36.4 | SD10-36.4R-01 | | 2414787 | 466088 |



Table 2 MFLBC Fine-Grained Sediment Sub-Sample Location Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| RM | Sediment Point ID | Associated Composite Sample ID | Easting (ft) | Northing (ft) | | |
|------|-------------------|---------------------------------------|--------------|---------------|--|--|
| 36.7 | SD10-36.6L-01 | | 2415162 | 464939 | | |
| 36.7 | SD10-36.6L-02 | | 2415181 | 464856 | | |
| 36.7 | SD10-36.6L-03 | | 2415180 | 464734 | | |
| 36.7 | SD10-36.6L-04 | | 2415202 | 464653 | | |
| 36.7 | SD10-36.6L-05 | SD10-36.6L | 2415202 | 464599 | | |
| 36.7 | SD10-36.6L-06 | | 2415193 | 464510 | | |
| 36.7 | SD10-36.6R-01 | | 2415203 | 464717 | | |
| 36.7 | SD10-36.6R-02 | | 2415231 | 464635 | | |
| 36.7 | SD10-36.6R-03 | | 2415228 | 464608 | | |
| 37.0 | SD10-37.0L-01 | · · · · · · · · · · · · · · · · · · · | 2415105 | 463482 | | |
| 37.0 | SD10-37.0L-02 | · | 2415065 | 463474 | | |
| 37.0 | SD10-37.0L-03 | | 2415023 | 463445 | | |
| 37.0 | SD10-37.0L-04 | SD10-37.0 | 2414617 | 463248 | | |
| 37.0 | SD10-37.0R-01 | | 2415087 | 463457 | | |
| 37.0 | SD10-37.0R-02 | , | 2414820 | 463394 | | |
| 37.0 | SD10-37.0R-03 | | 2414765 | 463359 | | |
| 37.1 | SD10-37.1R-01 | SD10-37.1R | 2414492 | 462992 | | |
| 37.2 | SD10-37.2L-01 | | 2414480 | 462941 | | |
| 37.2 | SD10-37.2L-02 | SD10-37.2 | 2414486 | 462892 | | |
| 37.2 | SD10-37.2R-01 | 3010-37.2 | 2414576 | 462531 | | |
| 37.2 | SD10-37.2R-02 | | 2414692 | 462475 | | |
| 37.3 | SD10-37.3R-01 | | 2414711 | 462412 | | |
| 37.3 | SD10-37.3R-02 | SD10-37.3R | 2414808 | 462154 | | |
| 37.3 | SD10-37.3R-03 | 3010-37.31 | 2414817 | 461927 | | |
| 37.3 | SD10-37.3R-04 | | 2414832 | 461879 | | |
| 37.4 | SD10-37.4L-01 | | 2414780 | 461571 | | |
| 37.4 | SD10-37.4L-02 | | 2414795 | 461684 | | |
| 37.4 | SD10-37.4L-03 | SD10-37.4R | 2414775 | 461450 | | |
| 37.4 | SD10-37.4L-04 | | 2414755 | 461422 | | |
| 37.4 | SD10-37.4R-01 | | 2414822 | 461623 | | |
| 37.5 | SD10-37.5L-01 | | 2414717 | 461112 | | |
| 37.5 | SD10-37.5L-02 | SD10-37.5R | 2414662 | 461068 | | |
| 37.5 | SD10-37.5R-01 | 05 10-07.0K | 2414755 | 461327 | | |
| 37.5 | SD10-37.5R-02 | | 2414704 | 461093 | | |
| 37.6 | SD10-37.6L-01 | | 2414571 | 460502 | | |
| 37.6 | SD10-37.6R-01 | SD10-37.6 | 2414626 | 460700 | | |
| 37.6 | SD10-37.6R-02 | 0. 10 - 01 UG | 2414616 | 460578 | | |
| 37.6 | SD10-37.6R-03 | | 2414557 | 460454 | | |

Coordinates shown are NAD 1983 State Plane, Ohio North.



Table 3 MFLBC Floodplain Soil Sample Summary PDI Technical Memorandum

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| | <u>-</u> | , | | | · | |
|------------------------|-----------------------------|-----------|-----------------------------------|-----------------------------|----------------|--|
| Quarter-Acre Sample | Approximate Area (acres) | Analyzed? | Associated Half-Acre Sample | Approximate Area (acres) | Analyzed? | |
| FPS10-001-01 | 0.28 | NO | FPS10-001 | 0.61 | YES | |
| FPS10-001-02 | 0.33 | NO | FF510-001 | 0.01 | ILO | |
| FPS10-002-01 | 0.31 | YES | None | None | Not Collected | |
| FPS10-003-01 | 0.35 | NO | FPS10-003 | 0.65 | YES | |
| FPS10-003-02 | 0.31 | NO | FF310-003 | 0.65 | 123 | |
| FPS10-004-01 | 0.30 | NO | FPS10-004 | 0.60 | YES | |
| FPS10-004-02 | 0.30 | NO | FF310-004 | 0.00 | 11.0 | |
| FPS10-005-01 | 0.25 | NO | FPS10-005 | 0.51 | YES | |
| FPS10-005-02 | 0.26 | NO | FF310-005 | 0.51 | 123 | |
| FPS10-006-01 | 0.24 | NO | FPS10-006 | 0.48 | YES | |
| FPS10-006-02 | 0.24 | NO | 17310-000 | 0.40 | 123 | |
| FPS10-007-01 | 0.23 | NO | FPS10-007 | 0.48 | YES | |
| FPS10-007-02 | 0.25 | NO | 17310-007 | 0.40 | 120 | |
| FPS10-008-01 | 0.25 | YES | None | None | Not Collected | |
| FPS10-008-02 | 0.25 | YES | None | None | 140t Collected | |
| FPS10-010-01 | 0.28 | NO | FPS10-010 | 0.54 | YES | |
| FPS10-010-02 | 0.26 | NO | 17310-010 | 0.54 | 120 | |
| FPS10-011-01 | 0.26 | NO | FPS10-011 | 0.53 | YES | |
| FPS10-011-02 | 0.27 | NO | 17310-011 | 0.55 | 123 | |
| FPS10-012-01 | 0.27 | NO | FPS10-012 | 0.55 | YES | |
| FPS10-012-02 | 0.27 | NO | 11-010-012 | 0.55 | 120 | |
| FPS10-013-01 | 0.25 | NO | FPS10-013 | 0.48 | YES | |
| FPS10-013-02 | 0.24 | NO | 11010-013 | 0.40 | 150 | |
| FPS10-014-01 | 0.26 | NO | FPS10-014 | 0.52 | YES | |
| FPS10-014-02 | 0.25 | NO | 11010014 | U.U.Z | 120 | |
| FPS10-015-01 | 0.27 | NO | FPS10-015 | 0.54 | YES | |
| FPS10-015-02 | 0.27 | NO | 11010010 | 0.01 | 120 | |
| FPS10-016-01 | 0.25 | NO | FPS10-016 | 0.51 | YES | |
| FPS10-016-02 | 0.26 | NO | 11010010 | | | |
| FPS10-017-01 | 0.25 | NO | FPS10-017 | 0.53 | YES | |
| FPS10-017-02 | 0.28 | NO | | | | |
| FPS10-018-01 | 0.24 NO | | FPS10-018 | 0.50 | YES | |
| FPS10-018-02 | 0.26 | NO | 7. 0.0010 | | . 20 | |
| FPS10-019-01 | 0.33 | NO | FPS10-019 | 0.64 | YES | |
| FPS10-019-02 | 0.31 | NO | | | | |
| FPS10-020-01 | 0.32 | NO | FPS10-020 | 0.65 | YES | |
| FPS10-020-02 | 0.33 | NO | | <u> </u> | . 20 | |
| FPS10-021-01 | 0.25 | NO | FPS10-021 | 0.51 | YES | |
| FPS10-021-02 | | | | J.J. | 159 | |

Table 3 MFLBC Floodplain Soil Sample Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| Quarter-Acre Sample | Approximate Area (acres) | Analyzed? | Associated Half-Acre Sample | Approximate Area (acres) | Analyzed? | |
|------------------------|-----------------------------|-----------|-----------------------------------|-----------------------------|-----------|--|
| FPS10-022-01 | 0.29 | NO 1 | ED040.000 | 0.55 | ٧٣٥ | |
| FPS10-022-02 | 0.25 | NO | FPS10-022 | 0.55 | YES | |
| FPS10-023-01 | 0.28 | NO | EDC40 022 | 0.56 | VEC | |
| FPS10-023-02 | 0.28 | NO | FPS10-023 | 0.56 | YES | |
| FPS10-024-01 | 0.32 | NO | EDC40.024 | 0.62 | VEC | |
| FPS10-024-02 | 0.31 | NO | FPS10-024 | 0.62 | YES | |
| FPS10-025-01 | 0.31 | NO | EDC10 03E | 0.56 | NO | |
| FPS10-025-02 | 0.24 | NO | FPS10-025 | 0.56 | NO | |
| FPS10-026-01 | 0.31 | NO | EDC40.006 | 0.50 | NO | |
| FPS10-026-02 | 0.19 | NO | FPS10-026 | 0.50 | NO | |
| FPS10-027-01 | 0.26 | NO | EDC40 007 | 0.53 | VEC | |
| FPS10-027-02 | 0.27 | NO | FPS10-027 | <u> </u> | YES | |
| FPS10-028-01 | 0.26 | NO | EDC40 000 | 0.51 | VEC | |
| FPS10-028-02 | 0.25 | NO | FPS10-028 | 0.51 | YES. | |
| FPS10-029-01 | 0.25 | NO | EDS10 020 | 0.50 | VEC | |
| FPS10-029-02 | 0.25 | NO | FPS10-029 | , 0.50 | YES | |
| FPS10-030-01 | 0.25 | NO | FPS10-030 | 0.50 | YES | |
| FPS10-030-02 | 0.25 | NO | FPS 10-030 | 0.50 | TES | |
| FPS10-031-01 | 0.25 | NO | FPS10-031 | 0.51 | YES | |
| FPS10-031-02 | 0.25 | NO | FP310-031 | 0.51 | TES | |
| FPS10-032-01 | 0.25 | NO | FPS10-032 | 0.49 | YES | |
| FPS10-032-02 | 0.24 | NO | FP310-032 | 0.49 | TES | |
| FPS10-033-01 | 0.25 | NO | FPS10-033 | 0.49 | YES | |
| FPS10-033-02 | 0.24 | NO | FFS 10-033 | | 120 | |
| FPS10-034-01 | 0.26 | NO | FPS10-034 | 0.51 | YES | |
| FPS10-034-02 | 0.26 | NO | 1 F 3 10-034 | 0.51 | 123 | |
| FPS10-035-01 | 0.25 | NO | FPS10-035 | 0.50 | YES | |
| FPS10-035-02 | 0.25 | NO | 11 010-000 | | 120 | |
| FPS10-036-01 | 0.26 | NO | FPS10-036 | 0.50 | YES | |
| FPS10-036-02 | 0.24 | NO | 11010-000 | 0.00 | 120 | |
| FPS10-037-01 | 0.24 | NO | FPS10-037 | 0.50 | YES | |
| FPS10-037-02 | 0.26 | NO | . 1 0 10-007 | | 120 | |
| FPS10-038-01 | 0.25 | NO | FPS10-038 | 0.50 | YES | |
| FPS10-038-02 | 0.25 | NO | 11 010-000 | <u> </u> | 120 | |
| FPS10-039-01 | 0.25 | NO | FPS10-039 | 0.50 | YES | |
| FPS10-039-02 | 0.25 | NO | 71 010-009 | | YES | |
| FPS10-040-01 | 0.24 | NO | FPS10-040 | 0.50 | YES | |
| FPS10-040-02 | 0.27 | NO | 11010-040 | 0.00 | 120 | |
| FPS10-041-01 | 0.25 | NO | FPS10_041 | Λ 5 1 | VES | |

Table 3 MFLBC Floodplain Soil Sample Summary PDI Technical Memorandum

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| Quarter-Acre Sample | Approximate Area (acres) | Analyzed? | Associated Half-Acre Sample | Approximate Area (acres) | Analyzed? | |
|------------------------|-----------------------------|-----------|-----------------------------------|-----------------------------|-----------|--|
| FPS10-041-02 | 0.25 | NO | 11010-0-71 | 0.01 | 120 | |
| FPS10-042-01 | 0.27 | NO | ED040.040 | 0.50 | ٧٢٥ | |
| FPS10-042-02 | 0.26 | NO | FPS10-042 | 0.53 | YES. | |
| FPS10-043-01 | 0.25 | NO | ED040.042 | 0.54 | VEC | |
| FPS10-043-02 | 0.25 | NO | FPS10-043 | 0.51 | YES | |
| FPS10-044-01 | 0.25 | NO | FPS10-044 | 0.40 | VEC | |
| FPS10-044-02 | 0.24 | NO | FPS10-044 | 0.49 | YES | |
| FPS10-045-01 | 0.24 | NO | EDC40 045 | 0.49 | VEC | |
| FPS10-045-02 | 0.25 | NO | FPS10-045 | 0.48 | YES | |
| FPS10-046-01 | 0.26 | NO | FPS10-046 | 0.51 | YES | |
| FPS10-046-02 | 0.26 | NO | FP310-046 | 0.51 | 150 | |
| FPS10-047-01 | 0.23 | NO | FPS10-047 | 0.47 | YES | |
| FPS10-047-02 | 0.24 | NO | FF310-047 | 0.47 | 123 | |
| FPS10-048-01 | 0.20 | NO | FPS10-048 | 0.41 | YES | |
| FPS10-048-02 | 0.21 | NO | FF310-040 | 0.41 | ILO | |
| FPS10-049-01 | 0.23 | NO | FPS10-049 | 0.47 | NO | |
| FPS10-049-02 | 0.23 | NO | FF310-049 | 0.47 | NO | |
| FPS10-050-01 | 0.24 | NO | FPS10-050 | 0.46 | NO | |
| FPS10-050-02 | 0.23 | NO | FF310-030 | 0.40 | NO | |
| FPS10-051-01 | 0.23 | NO | FPS10-051 | 0.48 | NO | |
| FPS10-051-02 | 0.25 | NO | 1 P 3 10-03 1 | 0.40 | 140 | |
| FPS10-052-01 | 0.29 | NO · | FPS10-052 | 0.59 | NO | |
| FPS10-052-02 | 0.30 | NO | FF310-032 | 0.59 | 140 | |
| FPS10-053-01 | 0.26 | NO | FPS10-053 | 0.51 | YES | |
| FPS10-053-02 | 0.25 | NO | 11-310-033 | 0.51 | 120 | |
| FPS10-054-01 | 0.24 | NO | FPS10-054 | 0.48 | YES | |
| FPS10-054-02 | 0.24 | NO . | 11010-05- | 0.40 | 120 | |
| FPS10-055-01 | 0.26 | NO | FPS10-055 | 0.54 | NO | |
| FPS10-055-02 | 0.28 | NO | 11 010-000 | 0.04 | 140 | |
| FPS10-056-02 | 0.23 | NO | FPS10-056 | 0.50 | YES | |
| FPS10-056-02 | 0.23 | NO | 71 010-000 | 0.00 | 120 | |
| FPS10-057-01 | 0.27 | NO | FPS10-057 | 0.53 | YES | |
| FPS10-057-02 | 0.26 | NO | 11 010-037 | 0.00 | 120 | |
| FPS10-058-01 | 0.26 | NO | FPS10-058 | 0.52 | YES | |
| FPS10-058-02 | 0.26 | NO | 11 010-050 | 0.02 | 120 | |
| FPS10-059-01 | 0.26 | NO | FPS10-059 | 0.53 | NO | |
| FPS10-059-02 | 0.27 | NO | 71 010-009 | <u> </u> | 140 | |
| FPS10-060-01 | 0.26 | NO | FPS10-060 | 0.53 | NO | |
| FPS10-060-02 | | | | | | |

Table 3 MFLBC Floodplain Soil Sample Summary PDI Technical Memorandum

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| Quarter-Acre Sample | Approximate Area (acres) | Analyzed? | Associated Half-Acre Sample | Approximate Area (acres) | Analyzed? |
|------------------------|-----------------------------|-----------|-----------------------------------|-----------------------------|-----------|
| FPS10-061-01 | 0.28 | NO | FPS10-061 | 0.55 | NO |
| FPS10-061-02 | 0.27 NO | | FF310-001 | 0.55 | NO |
| FPS10-062-01 | 0.28 | NO | FPS10-062 | 0.54 | NO |
| FPS10-062-02 | 0.26 | NO | FF310-002 | 0.54 | NO |
| FPS10-063-01 | 0.32 | NO | FPS10-063 | 0.57 | NO |
| FPS10-063-02 | 0.26 | NO | FF310-003 | 0.57 | 140 |
| FPS10-064-01 | 0.22 | NO | FPS10-064 | 0.41 | NO · |
| FPS10-064-02 | 0.20 | NO | FF310-004 | 0.41 | 140 |
| FPS10-065-01 | 0.27 | NO | FPS10-065 | 0.52 | NO |
| FPS10-065-02 | 0.26 | NO | FF310-005 | 0.52 | 140 |
| FPS10-066-01 | 0.25 | NO | FPS10-066 | 0.50 | YES |
| FPS10-066-02 | 0.25 | NO | FF310-000 | υ <u>.</u> ου | TEO |

Table 4 MFLBC Fish Sample Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| River Mile | Site Name | Date Sampled | Time Sampled | Species | Fish Length (mm) | Fish Weight (g) | Interpreted Age Based on Length/Age Data Provided by Ohio EPA | Length Percentile Based on Ohio EPA State-Wide Fish Sampling Database | Field Weight of Filet (g) | Field Weight of Offal (g) | Sample IDs F = Fillet O = Offal | Notes | Latitude/ Longitude |
|---------------|----------------|-----------------|-----------------|---------|---------------------|-----------------|---|---|------------------------------|------------------------------|---------------------------------------|--|-------------------------|
| | | 7.4 | | YB | 306 | 518 | >=3yr and <=5yr | >50th% | 110 | 408 | FT10-12.5-YB-F, FT10-12.5-YB-O | Only captured one yellow bullhead. Sample was NOT selected for laboratory analsis. | Upstream: |
| | | | 300 | WS | 365 | 458 | >=3yr and <=5yr | >50th% | | | | | N 40°46'38.1" |
| | | | | WS | 354 | 405 | >=3yr and <=5yr | >50th% | | | FT40 40 5 1410 F | | W 80°46'59.1" |
| | 25. | | | WS | 349 | 355 | >=3yr and <=5yr | >50th% | 466 | 1505 | FT10-12.5-WS-F, FT10-12.5-WS-O | | Downstream: |
| | 7.1. 2.55 | | | WS | 369 | 449 | >=3yr and <=5yr | >50th% | | 7 192 2 | 1110-12.5-445-0 | | N 40°46'25.8" |
| 12.5 | Lisbon Dam | 9/13/10 | 14:25 | WS | 347 | 415 | >=3yr and <=5yr | >50th% | | 7 | | | W 80°46'46.0" |
| | F 53 14 - 13 | | 100 | CC | 442 | 1700 | >5 yr | >50th% | | 5 2 7 70 | 心理 型艺法 上海 | | |
| | 1 1 TO 1 | | | CC | 430 | 2000 | >=3yr and <=5yr | >50th% | | 4200 | FT40 40 5 00 5 | Two separate bags of offal from the common | |
| | 61 1/2 8 | | | CC | 412 | 1500 | >=3yr and <=5yr | >50th% | 1675 | | FT10-12.5-CC-F, FT10-12.5-CC-O | carp. First four were females, last one was | |
| | | 6-4-5 | | CC | 420 | 1725 | >=3yr and <=5yr | >50th% | | 3000 | 1110-12.5-00-0 | male. | Part Sales of the Sales |
| | and and | | | CC | 445 | 1925 | >5 yr | >50th% | | 3000 | | | |
| | | | | YB | 255 | 238 | >=3yr and <=5yr | >50th% | | | FT40 20 0 VP F | | Upstream: |
| | | | | YB | 190 | 97 | >=3yr and <=5yr | <25th% | 105 | 352 | FT10-32.0-YB-F, FT10-32.0-YB-O | | N 40°58'10.6" |
| | | | 1 5 1 | YB | 215 | 131 | >=3yr and <=5yr | >50th% | | St. Bulletin | 1110-32.0-10-0 | | W 80°51'31.5" |
| | | | | WS | 290 | 227 | <3 yr | >50th% | | k - 1 | | | Downstream: |
| | | | 3 * 1 * 1 | WS | 302 | 312 | <3 yr | >50th% | | | FT10-32.0-WS-F, | | N 40°58'9.6" |
| 32.0 | SR 45 | 9/13/10 | 18:00 | WS | 297 | 248 | <3 yr | >50th% | 351 | 905 | FT10-32.0-WS-F, | | W 80°51'27.7" |
| | | | + | WS | 291 | 249 | <3 yr | >50th% | | 2 4 | | | |
| | | | 2 | WS | 303 | 231 | <3 yr | >50th% | | 1 1 | | | |
| | | | | CC | 311 | 436 | >=3yr and <=5yr | 25th-50th% | | | FT10-32.0-CC-F, | First was male, two largest were females & | 1 |
| | i i | | | CC | 479 | 2175 | >5 yr | >50th% | 958 | 3625 | FT10-32.0-CC-P, | above desired size range. | 11 |
| | | | | CC | 521 | 2275 | >5 yr | >50th% | | | | above desired size range. | |
| | | | | YB | 183 | 95 | <3 yr | <25th% | N/A | 95 | FT10-33.3-YB-O | Only one yellow bullhead, insufficient tissue to fillet. Submitted as whole body sample, but this sample was NOT selected for laboratory analysis. | Upstream: |
| | | | d . | WS | 327 | 343 | >=3yr and <=5yr | >50th% | | | | | N 40°57'31.9" |
| | Middletown | | | WS | 299 | 260 | <3 yr | >50th% | | | FT40 22 2 14/0 F | | W 80°51'59.9" |
| 33.3 | Road | 9/14/10 | 09:15 | WS | 279 | 279 | <3 yr | 25th-50th% | 322 | 924 | FT10-33.3-WS-F, FT10-33.3-WS-O | 2 | Downstream: |
| | | | | WS | 273 | 196 | <3 yr | 25th-50th% | 1 | | 1110-33.3-443-0 | | N 40°57'32.4" |
| | | | 1 1 1 | WS | 266 | 176 | <3 yr | 25th-50th% | 25.5 | | | | W 80°51'51.4" |
| | | | | CC | 522 | 2400 | >5 yr | >50th% | 1 1 1/2 1 | | FT40.00.0.00.5 | | |
| | | | | CC | 581 | 2525 | >5 yr | >50th% | 1525 | 5225 | FT10-33.3-CC-F, FT10-33.3-CC-O | First was female, others male. All above desired size. | |
| | | | | CC | 588 | 2850 | >5 yr | >50th% | | | 1110-33.5-00-0 | desiled size. | 300.00 (30.00 |
| | | | | YB | 248 | 263 | >=3yr and <=5yr | >50th% | 04 | 200 | FT10-35.4-YB-F, | | Upstream: |
| | | | | YB | 192 | 105. | >=3yr and <=5yr | <25th% | 84 | 290 | FT10-35.4-YB-O | | N 40°56'31.3" |
| | | 4 | 5.0 | WS | 291 | 232 | <3 yr | >50th% | 44 | 1 2 2 2 2 | | | W 80°53'03.8" |
| 35.4 | Colonial Villa | 9/14/10 | 12:00 | WS | 287 | 236 | <3 yr | 25th-50th% | 7 7 47 | | FT40 0F 4 140 F | | Downstream: |
| | | 1.51 | | WS | 272 | 238 | <3 yr | 25th-50th% | 295 | 810 | FT10-35.4-WS-F, FT10-35.4-WS-O | | N 40°56'40.1" |
| | | | | WS | 291 | 248 | <3 yr | >50th% | | | 110-55.4-445-0 | | W 80°52'42.5" |
| | | | | WS | 272 | 200 | <3 yr | 25th-50th% | | | | | |



Table 4 MFLBC Fish Sample Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| River Mile | Site Name | Date Sampled | Time Sampled | Species | Fish Length (mm) | Fish Weight (g) | Interpreted Age Based on Length/Age Data Provided by Ohio EPA | Length Percentile Based on Ohio EPA State-Wide Fish Sampling Database | Field Weight of Filet (g) | Field Weight of Offal (g) | Sample IDs F = Fillet O = Offal | Notes | Latitude/ Longitude |
|---------------|----------------|-----------------|-----------------|---------|---------------------|-----------------|---|---|------------------------------|------------------------------|---------------------------------------|--|---------------------|
| | | | | YB | 306 | 518 | >=3yr and <=5yr | >50th% | 110 | 408 | FT10-12.5-YB-F, FT10-12.5-YB-O | Only captured one yellow bullhead. Sample was NOT selected for laboratory analsis. | Upstream: |
| | | | | ws | 365 | 458 | >=3yr and <=5yr | >50th% | | | | | N 40°46'38.1" |
| | | | | WS | 354 | 405 | >=3yr and <=5yr | >50th% | | | | | W 80°46'59.1" |
| | | | | WS | 349 | 355 | >=3yr and <=5yr | >50th% | 466 | 1505 | FT10-12.5-WS-F, FT10-12.5-WS-O | | Downstream: |
| | | | | WS | 369 | 449 | >=3yr and <=5yr | >50th% | | AND THE STREET | F110-12.5-VV3-0 | | N 40°46'25.8" |
| 12.5 | Lisbon Dam | 9/13/10 | 14:25 | WS | 347 | 415 | >=3yr and <=5yr | >50th% | | | | | W 80°46'46.0" |
| | | | | CC | 442 | 1700 | >5 yr | >50th% | | | | | |
| | N | | | CC | 430 | 2000 | >=3yr and <=5yr | >50th% | | 4200 | FT40 40 F 00 F | Two separate bags of offal from the common | |
| 4 1 | | | 1874 J. V | CC | 412 | 1500 | >=3yr and <=5yr | >50th% | 1675 | | FT10-12.5-CC-F, FT10-12.5-CC-O | carp. First four were females, last one was | |
| | | | 194 39 | CC | 420 | 1725 | >=3yr and <=5yr | >50th% | | 3000 | 1110-12.5-00-0 | male. | |
| | | 7 2 2 1 | | CC | 445 | 1925 | >5 yr | >50th% | 7 TO 80 PT | 3000 | | | |
| | | | | YB | 255 | 238 | >=3yr and <=5yr | >50th% | W 77 7 1 7 1 9 | | FT40 00 0 VP 5 | | Upstream: |
| | | | | YB | 190 | 97 | >=3yr and <=5yr | <25th% | 105 | 352 | FT10-32.0-YB-F, FT10-32.0-YB-O | | N 40°58'10.6" |
| Y M | | | | YB | 215 | 131 | >=3yr and <=5yr | >50th% | 4 3 3 | | 1110-32.0-1B-O | | W 80°51'31.5" |
| | | | | WS | 290 | 227 | <3 yr | >50th% | 5 4 4 E | | | | Downstream: |
| | | | | WS | 302 | 312 | <3 yr | >50th% | | | FT40 20 0 14/0 F | | N 40°58'9.6" |
| 2.0 | SR 45 | 9/13/10 | 18:00 | WS | 297 | 248 | <3 yr | >50th% | 351 | 905 | FT10-32.0-WS-F, FT10-32.0-WS-O | | W 80°51'27.7" |
| . 1 | | | | WS | 291 | 249 | <3 yr | >50th% | | | 1110-02.0-440-0 | | 1.7 |
| | | | | WS | 303 | 231 | <3 yr | >50th% | | | | | 1 1 |
| | | | | CC | 311 | 436 | >=3yr and <=5yr | 25th-50th% | e vicini | | FT10-32.0-CC-F. | First was male too learnest was familie 9 | |
| e e | | | | CC | 479 | 2175 | >5 yr | >50th% | 958 | 3625 | FT10-32.0-CC-F, | First was male, two largest were females & above desired size range. | |
| | | 1 | | CC | 521 | 2275 | >5 yr | >50th% | 17517 443 | 100 P 40 - 6 | 1110 02.0 00 0 | above desired size range. | 1 1 1 1 1 1 1 1 1 1 |
| | | | | YB | 183 | 95 | <3 yr | <25th% | N/A | 95 | FT10-33.3-YB-O | Only one yellow bullhead, insufficient tissue to fillet. Submitted as whole body sample, but this sample was NOT selected for laboratory analysis. | Upstream: |
| | | E/ | | WS | 327 | 343 | >=3yr and <=5yr | >50th% | | | | | N 40°57'31.9" |
| 1.38 | Middletown | | | WS | 299 | 260 | <3 yr | >50th% | | | FT40 00 0 14/0 F | | W 80°51'59.9" |
| 3.3 | Road | 9/14/10 | 09:15 | WS | 279 | 279 | <3 yr | 25th-50th% | 322 | 924 | FT10-33.3-WS-F, FT10-33.3-WS-O | | Downstream: |
| ÷ 1 | | | | WS | 273 | 196 | <3 yr | 25th-50th% | | | 1110-55.5-445-0 | | N 40°57'32.4" |
| | | | | WS | 266 | 176 | <3 yr | 25th-50th% | | | | | W 80°51'51.4" |
| | 2 , | | | CC | 522 | 2400 | >5 yr | >50th% | | | E-10.00.0.00.E | | |
| | 2 | | | CC | 581 | 2525 | >5 yr | >50th% | 1525 | 5225 | FT10-33.3-CC-F, FT10-33.3-CC-O | First was female, others male. All above desired size. | |
| | | ** A ** | | CC | 588 | 2850 | >5 yr | >50th% | | | 1110-33.3-00-0 | desiled size. | |
| | | 7 | | YB | 248 | 263 | >=3yr and <=5yr | >50th% | 04 | 200 | FT10-35.4-YB-F, | | Upstream: |
| | 7.77 | | | YB | 192 | 105 · | >=3yr and <=5yr | <25th% | 84 | 290 | FT10-35.4-YB-O | | N 40°56'31.3" |
| 1 | | | | WS | 291 | 232 | <3 yr | >50th% | | S. 191 - | | 35 4-WS-F | W 80°53'03.8" |
| 5.4 | Colonial Villa | 9/14/10 | 12:00 | WS | 287 | 236 | <3 yr | 25th-50th% | | 1 1 2 13 | FT40 0F 4 1410 F | | Downstream: |
| | The street of | | -12. A | WS | 272 | 238 | <3 yr | 25th-50th% | 295 | 810 | FT10-35.4-WS-F, FT10-35.4-WS-O | N 40°56'40.1" | |
| | | 8 1 | 12.12 | WS | 291 | 248 | <3 yr | >50th% | 100 | | 1110-33.4-443-0 | | W 80°52'42.5" |
| | | | | WS | 272 | 200 | <3 yr | 25th-50th% | | | A March Land | | |



Table 4 MFLBC Fish Sample Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| River Mile | Site Name | Date Sampled | Time Sampled | Species | Fish Length (mm) | Fish Weight (g) | Interpreted Age Based on Length/Age Data Provided by Ohio EPA | Length Percentile Based on Ohio EPA State-Wide Fish Sampling Database | Field Weight of Filet (g) | Field Weight of Offal (g) | Sample IDs F = Fillet O = Offal | Notes | Latitude/ Longitude |
|---------------|-------------------|-----------------|-----------------|---------|---------------------|--------------------|---|---|------------------------------|---------------------------------------|---------------------------------------|---|--------------------------------|
| 196 | | | 100 | YB | 203 | 118 | >=3yr and <=5yr | 25th-50th% | N/A | 158 | FT10-36.7-YB-O | Too little to filet; composited two fish into a | Upstream: |
| | | | | YB | 153 | 40 | <3 yr | <25th% | IVA | 150 | F110-30.7-1B-0 | whole body sample. | N 40°55'48.3" |
| | Discolate. | | | WS | 282 | 227 | <3 yr | 25th-50th% | | | | | W 80°52'59.7" |
| 36.7 | Pine Lake Road | 9/14/10 | 15:30 | WS | 264 | 232 | <3 yr | 25th-50th% | | | FT40.26.7 IMC F | | Downstream: |
| | Noau | | | WS | 266 | 196 | <3 yr | 25th-50th% | 252 | 742 | FT10-36.7-WS-F, FT10-36.7-WS-O | Last fish below desired size limit | N 40°55'54.0" |
| 25 | | | | WS | 265 | 212 | <3 yr | 25th-50th% | | | 1110-30.7-443-0 | | W 80°53'00.1" |
| STATE L | | | 800 Page 1 | WS | 251 | 148 | <3 yr | <25th% | | | | | |
| - | | | | WS | 302 | 358 | <3 yr | >50th% | Upstream: | | | | |
| | | | | ws | 263 | 168 | <3 yr | 25th-50th% | | | | | N 40°55'12.2" W 80°53'07.4" |
| 37.5 | Allen Rd. | 9/14/10 | 17:00 | WS | 230 | 167 | <3 yr | <25th% | 239 | 715 | FT10-37.5-WS-F, FT10-37.5-WS-O | Last three fish below desired size limit | Downstream: |
| | | | | ws | 233 | 158 | <3 yr | <25th% | | | 1110-37.5-443-0 | | N 40°55'18.6" W 80°53'06.0" |
| 1097 | | | | WS | 228 | 125 | <3 yr | <25th% | | | | | |
| | THE SHALL | | | WS | 242 | 142 | <3 yr | <25th% | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 12 CO 10 10 10 | | Upstream: |
| | | | | ws | 210 | 100 | <3 yr | <25th% | | | | | N 40°54'40.0" W 80°52'45.8" |
| 38.4 | WWTP | 9/15/10 | 08:30 | WS | 210 | 94 | <3 yr | <25th% | 150 | 365 | FT10-38.4-WS-F, FT10-38.4-WS-O | All fish below desired size limit | Downstream: |
| | | 9/13/10 08.30 | ws | 198 | 106 | <3 yr | <25th% | | | F110-30.4-VVS-O | | N 40°54'43.8" W 80°52'48.2" | |
| | | | | WS | 208 | 99 | <3 yr | <25th% | | | - No. 1877 79 | | |

Highlighted rows indicate samples that were NOT selected for laboratory analysis.



Table 5 MFLBC Validated Sediment Analytical Results Summary PDt Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| | | | | | Parameter | | Mirex | | Total C | Organic (| Carbon | Percent Solids | Gravel Content | Sand Content | Fines Content (Silt + Clay) |
|--------------------------|----------------|---------------------|--------------------|----------------|-------------|--------|-------|--------|---------|-----------|--------|-------------------|-------------------|-----------------|--------------------------------|
| | | | | | Unit | | mg/kg | | | mg/kg | | percent | percent | percent | percent |
| Composite Sample Area | Sample ID | Start Depth (in) | End Depth* (in) | Sample Type | Sample Date | Result | Qual | RL | Result | Qual | -RL | Result | Result | Result | Reşuit |
| SD10-31.1R | SD10-31.1R-0-2 | 0 | 2 | N | 9/8/2010 | 0.086 | J | 0.037 | 15,000 | _ | 420 | 58.9 | 0.0 | 64.1 | 35.9 |
| SD10-31.2L | SD10-31.2L-0-4 | 0 | 4 | N | 9/8/2010 | 0.19 | J | 0.055 | 10,000 | | 620 | 40.3 | 0.0 | 69.2 | 30.8 |
| SD10-31.3R | SD10-31.3R-0-6 | 0 | 6 | N | 9/8/2010 | 0.026 | J | 0.0084 | 4,500 | | 480 | 52.4 | 3.0 | 47.4 | 49.6 |
| SD10-31.4R | SD10-31.4R-0-6 | 0 | 6 | N | 9/8/2010 | 0.6 | J | 0.32 | 6,300 | | 360 | 69.2 | 0.1 | 61.2 | 38.7 |
| SD10-31.7L | SD10-31.7L-0-4 | 0 | 4 | _ N | 9/8/2010 | 0.08 | J | 0.037 | 13,000 | | 420 | 60.0 | 0.1 | 64.1 | 35.8 |
| SD10-31.8 | SD10-31.8-0-4 | 0 | 4 | N | 9/8/2010 | 0.034 | J | 0.02 | 14,000 | | 450 | 55.8 | 0.0 | 54.9 | 45.1 |
| SD10-31.9C | SD10-31.9C-0-4 | 0 | 4 | N | 9/8/2010 | NA | | | ND | U | 330 | 76.0 | NA | NA | NA |
| SD10-32.0 | SD10-32.0-0-6 | 0 | 6 | N | 9/8/2010 | 0.11 | J | 0.047 | 20,000 | | 2700 | 47.0 | 0.0 | 36.7 | 63.3 |
| SD10-32.0C | SD10-32.0C-0-3 | 0 | 3 | N | 9/8/2010 | NA | | | 540 | J | 330 | 74.7 | NA | NA | NA |
| SD10-32.1R | SD10-32.1R-0-1 | 0 | 1 | N | 9/9/2010 | 0.077 | J | 0.028 | 32,000 | | 630 | 39.5 | 0.5 | 34.5 | 65.0 |
| SD10-32.2L | SD10-32.2L-0-1 | 0 | 1 | N | 9/9/2010 | 0.037 | J | 0.01 | 26,000 | | 580 | 42.9 | 0.1 | 22.5 | 77.4 |
| SD10-32.3L | SD10-32.3L-0-6 | 0 | 6 | N | 9/9/2010 | 0.056 | J | 0.023 | 23,000 | | 530 | 47.3 | 0.0 | 24.5 | 75.5 |
| SD10-32.9C | SD10-32.9C-0-3 | 0 | 3 | N | 9/9/2010 | NA | | | 2,300 | | 360 | 69.3 | NA NA | NA | NA |
| SD10-32.9R | SD10-32.9R-0-3 | 00 | 3 | N | 9/9/2010 | 0.11 | J | 0.046 | 9,600 | | 520 | 48.2 | 5.6 | 38.7 | 55.7 |
| SD10-33.0R | SD10-33.0R-0-2 | 0 | 2 | N | 9/9/2010 | 0.057 | J | 0.029 | 20,000 | | 3400 | 37.3 | 3.3 | 33.8 | 62.9 |
| SD10-33.1L | SD10-33.1L-0-4 | 0 | 4 | N | 9/9/2010 | 0.17 | J | 0.096 | 29,000 | | 550 | 45.6 | 0.0 | 33.7 | 66.3 |
| SD10-33.1L | SD10-DUP-01 | 0 | 4 | FD | 9/9/2010 | 0.25 | J | 0.1 | 29,000 | | 570 | 43.9 | 0.4 | 25.6 | 74.0 |
| SD10-33.2L | SD10-33.2L-0-6 | 0 | 6 | N | 9/13/2010 | 0.12 | | 0.039 | 11,000 | | 440 | 56.4 | 0.0 | 50.2 | 49.8 |
| SD10-33.5 | SD10-33.5-0-4 | 0 | 4 | N | 9/13/2010 | 0.3 | • | 0.082 | 18,000 | | 470 | 53.6 | 4.3 | 57.2 | 38.5 |
| SD10-33.6R | SD10-33.6R-0-2 | 0 | 2 | Z | 9/13/2010 | 0.56 | | 0.083 | 15,000 | | 470 | 52.9 | 0.0 | 55.6 | 44.4 |
| SD10-33.7R | SD10-33.7R-0-3 | 0 | 3 | N | 9/13/2010 | 0.16 | J | 0.042 | 21,000 | | 470 | 53.0 | 0.3 | 46.7 | 53.0 |
| SD10-33.7R | SD10-DUP2 | 0 | 3 | FD | 9/13/2010 | 0.041 | J | 0.0038 | 16,000 | | 430 | 58.5 | 0.0 | 47.2 | 52.8 |
| SD10-33.8C | SD10-33.8C-0-2 | 0 | 2 | N | 9/13/2010 | 0.13 | | 0.057 | 2,500 | | 330 | 76.5 | 0.3 | 95.9 | 3.7 |
| SD10-33.8R | SD10-33.8R-0-3 | 0 | 3 | N | 9/13/2010 | 0.17 | | 0.055 | 11,000 | | 620 | 40.3 | 0.0 | 30.3 | 69.7 |
| SD10-33.9R | SD10-33.9R-0-4 | 0 | 4 | N | 9/13/2010 | 0.26 | | 0.099 | 27,000 | | 560 | 44.3 | 0.0 | 29.3 | 70.7 |
| SD10-34.4L | SD10-34.4L-0-3 | 0 | 3 | N | 9/14/2010 | 0.016 | | 0.0043 | 16,000 | | 490 | 50.8 | 0.0 | 52.0 | 48.0 |
| SD10-34.5R | SD10-34.5R-0-7 | 0 | 7 | N | 9/14/2010 | ND | U | 0.0026 | 3,000 | | 290 | 85.7 | 15.5 | 35.9 | 48.6 |
| SD10-34.6L | SD10-34.6L-0-3 | 0 | 3 | N | .9/14/2010 | 0.19 | | 0.085 | 17,000 | | 480 | 51.7 | 0.1 | 53.5 | 46.4 |
| SD10-34.8R | SD10-34.8R-0-3 | 0 | 3 | N | 9/14/2010 | 0.18 | | 0.093 | 24,000 | | 530 | 47.4 | 0.0 | 30.8 | 69.2 |
| SD10-34.9L | SD10-34.9L-0-2 | 0 | 2 | N | 9/14/2010 | 0.83 | | 0.36 | 19,000 | | 410 | 60.6 | 0.0 | 57.1 | 42.9 |



Table 5 MFLBC Validated Sediment Analytical Results Summary PDI Technical Memorandum

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| | | | | | Parameter | | Mirex | | Total C | Organic Carbon | Percent Solids | Gravel Content | Sand Content | Fines Content (Silt + Clay) |
|--------------------------|----------------|---------------------|--------------------|----------------|-------------|--------|-------|--------|---------|----------------|-------------------|-------------------|-----------------|--------------------------------|
| | | | | | Unit | | mg/kg | | | mg/kg | percent | percent | percent | percent |
| Composite Sample Area | Sample ID | Start Depth (in) | End Depth* (in) | Sample Type | Sample Date | Result | Qual | RL. | Result | Qual RL | Result | Result | Result - | Result |
| SD10-35.1R | SD10-35.1R-0-2 | 0 | 2 | N | 9/14/2010 | 0.12 | | 0.047 | 23,000 | 540 | 46.3 | 0.0 | 45.4 | 54.6 |
| SD10-35.2L | SD10-35.2L-0-1 | 0 | 1 | N | 9/14/2010 | 0.17 | | 0.047 | 23,000 | 540 | 46.5 | 0.4 | 45.9 | 53.7 |
| SD10-35.4C | SD10-35.4C-0-4 | 0 | 4 | N | 9/14/2010 | 1.1 | | 0.3 | 3,500 | 340 | 73.9 | 1.8 | 92.9 | 5.3 |
| SD10-35.7R | SD10-35.7R-0-2 | 0 | 2 | N | 9/15/2010 | 0.13 | | 0.043 | 12,000 | 480 | 51.8 | 0.0 | 59.6 | 40.4 |
| SD10-35.8R | SD10-35.8R-0-1 | 0 | 1 | Ņ | 9/15/2010 | 0.21 | | 0.04 | 14,000 | 460 | 54.5 | 0.4 | 48.5 | 51.1 |
| SD10-35.9R | SD10-35.9R-0-2 | 0 | 2 | N | 9/15/2010 | 0.13 | | 0.056 | 32,000 | 640 | 39.1 | 0.0 | 24.7 | 75.4 |
| SD10-36.0L | SD10-36.0L-0-2 | 0 | 2 | N | 9/15/2010 | 0.1 | | 0.05 | 21,000 | 570 | 43.9 | 0.0 | 39.8 | 60.2 |
| SD10-36.1C | SD10-36.1C-0-3 | 0 | 3 | _ N | .9/15/2010 | NA | | | 3,200 | 340 | . 72.5 | NA | NA | NA |
| SD10-36.1L | SD10-36.1L-0-1 | 0 | 1 | N | 9/15/2010 | 0.069 | J | 0.029 | 33,000 | 670 | 37.6 | 0.0 | 16.3 | 83.7 |
| SD10-36.1L | SD10-DUP3 | 0 | 1 | FD | 9/15/2010 | 0.29 | J | 0.058 | 34,000 | 660 | 38.1 | 0.0 | 15.1 | 84.9 |
| SD10-36.2R | SD10-36.2R-0-1 | 0 | 1 | N | 9/15/2010 | 0.14 | | 0.042 | 23,000 | 480 | 52.5 | 0.0 | 36.7 | 63.3 |
| SD10-36.3L | SD10-36.3L-0-1 | 0 | 1 | N | 9/15/2010 | 0.065 | | 0.026 | 31,000 | 590 | 42.2 | 0.0 | 27.8 | 72.2 |
| SD10-36.4L | SD10-36.4L-0-2 | 0 | 2 | N | 9/15/2010 | 0.12 | | 0.041 | 17,000 | 470 | 53.1 | 0.0 | 47.4 | 52.6 |
| SD10-36.6L | SD10-36.6L-0-2 | 0 | 2 | N | 9/14/2010 | 0.54 | | 0.087 | 15,000 | 490 | 50.8 | . 0.0 | 54.8 | 45.2 |
| SD10-37.0 | SD10-37.0-0-2 | 0 | 2 | N | 9/15/2010 | 0.024 | | 0.009 | 20,000 | 510 | 48.9 | 0.0 | 53.0 | 47.0 |
| SD10-37.1R | SD10-37.1R-0-2 | 0 | 2 | N | 9/15/2010 | 0.075 | | 0.033 | 35,000 | 740 | 33.7 | 0.0 | 15.9 | 84.1 |
| SD10-37.2 | SD10-37.2-0-12 | 0 | 12 | N | 9/15/2010 | 0.037 | J | 0.012 | 35,000 | 700 | 35.6 | 0.0 | 22.9 | 77.1 |
| SD10-37.3R | SD10-37.3R-0-6 | 0 | 6 | N | 9/16/2010 | 0.19 | | 0.065 | 37,000 | 740 | 33.7 | 0.6 | 38.4 | 61.0 |
| SD10-37.4R | SD10-37.4R-0-4 | 0 | 4 | N | 9/16/2010 | 0.26 | · | 0.068 | 43,000 | 1600 | 32.2 | 0.8 | 30.0 | 69.2 |
| SD10-37.5R | SD10-37.5R-0-6 | 0 | 6 | N | 9/16/2010 | 0.8 | . J | 0.068 | 48,000 | 1600 | 32.2 | 0.1 | 15.7 | 84.2 |
| SD10-37.5R | SD10-DUP4 | 0 | 6 | FD | 9/16/2010 | 0.35 | J | 0.067 | 49,000 | 1500 | 32.8 | NA NA | NA | NA |
| SD10-37.6 | SD10-37.6-0-3 | 0 | 3 | N | 9/16/2010 | ND | U | 0.0047 | 21,000 | 540 | 46.7 | 0.2 | 46.5 | 53.3 |
| SD10-37.6C | SD10-37.6C-0-2 | 0 | 2 | N | 9/16/2010 | ŅA | | | 1,600 | 350 | 71.1 | NA | NA | NA |

Notes:

N = normal

FD = field duplicate

Qual = validated qualifier

RL = laboratory reporting limit

in = inches

mg/kg = milligrams per kilogram

ND = Not Detected

NA = not analyzed - For archived samples that were not analyzed for mirex, TOC was analyzed so that holding times for that parameter could be achieved. Grain size distribution was not analyzed for these samples because there is no holding time limitation.

Qualifiers:

U = not detected above RL

J = estimated result



^{*} End depth specified is the bottom depth of the deepest sub-sample included in the composite sample.

| ID | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|------------------|------------|---|-------------|------------|-----------------------|-----------------------|---|
| SD09-31.1-1 | POINT | 31.1 | Brown/grey sandy SILT, medium gravel, organics, no odor | 5 | 5 | NA NA | 25.0 | |
| SD09-31.1-2 | POINT | 31.1 | Brown/grey sandy SILT, medium gravel, organics, no odor | 15 | 5 | NA NA | 75.0 | |
| SD10-31.1R-01 | POINT | 31.1 | Sandy SILT with some fine gravel | 10 | 50 | NA NA | 500.0 | Area covers points 01 through 04 |
| SD10-31.1R-03 | POINT | 31.1 | SILT with some fine sand and gravel | NA NA | NA - | NA | NA | Covered by point 01 |
| SD10-31.1R-04 | POINT | 31.1 | SILT with some fine sand and gravel | NA. | NA | NA. | NA | Covered by point 01 |
| SD10-31.1R-06 | POINT | 31.1 | Small area behind tree on left | 1 | 1 | NA . | 1.0 | |
| SD10-31,2L-01 | POINT | 31.2 | SILT with some very fine sand | NA NA | NA | 26 | NA | |
| SD10-31.2L-04 | POINT | 31.2 | Emergent | NA | NA | NA . | NA | Area data not recorded, minor compared to rest of areas in river mile |
| SD09-31.3-1 | POINT | 31.3 | Brown SAND, medium gravel, no odor, organics | NA | NA | NA . | NA | Not fine-grained sediment body. |
| SD09-31.3-2 | POINT | 31.3 | Dark brown, SILT, trace sand, organics, no odor | NA | NA . | N A | NA | Area data not recorded, minor compared to rest of areas in river mile |
| SD09-31.3-4 | POINT | 31.3 | Brown/grey SILT, trace sand, no odor | 10 | 2 | NA NA | 20.0 | |
| SD09-31.3-5 | POINT | 31.3 | CLAY (appears to be part of formation, not stream sediment) | NA | NA | NA NA | NA | Not fine-grained sediment body. |
| SD10-31.3L-03 | POINT | 31.3 | Sandy SILT trace fine gravel | 2 | 12 | NA NA | 24.0 | |
| SD10-31.3R-01 | POINT | 31.3 | SILT trace fine sand | 30 | NA | NA | 708.5 | circle |
| SD10-31.3R-02 | POINT | 31.3 | Silty medium SAND | 2 | 2 | NA | 4.0 | |
| SD10-31.3R-04 | POINT | 31.3 | Small pocket | 2 | 2 | NA NA | 4.0 | |
| SD10-31.3R-05 | POINT | 31.3 | SILT with some fine sand | NA NA | NA | NA NA | NA | Covered by SD09-31.3-4 |
| SD10-31.3R-06 | POINT | 31.3 | SILT with some fine sand, trace gravel | NA | NA | 25 | NA | • |
| SD10-31.4R-01 | POINT | 31.4 | SILT and CLAY with some sand | NA | NA | NA | NA | Area data not recorded, minor compared to rest of areas in river mile |
| SD10-31.4R-02 | POINT | 31.4 | Silty fine SAND trace gravel | 2 | 2 | NA | 4.0 | |
| SD10-31.4R-03 | POINT | 31.4 | Silty fine SAND | 3 | 3 | NA NA | 9.0 | |
| SD10-31.4R-04 | POINT | 31.4 | Sandy SILT | 10 | 20 | NA NA | 200.0 | |
| SD09-31.7-1 | POINT | 31.7 | Brown/grey sandy SILT, medium to fine gravel, organics, no odor | NA | NA | 22 | NA | |
| SD09-31.7-3 | POINT | 31.7 | Brown/grey sandy SILT, medium to fine gravel, organics, no odor | NA | NA | 24 | NA | |
| SD10-31.7L-01 | POINT | 31.7 | Silty fine SAND | 3 | 2 | NA NA | 6.0 | |
| SD10-31.7L-03 | POINT | 31.7 | SILT with some fine sand | 35 | 5 | NA NA | NA | Area represents points 03 & 04 |



| 1D | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|---------------------|------------|--|-------------|------------|-----------------------|-----------------------|--|
| SD10-31.7L-04 | POINT | 31.7 | SILT with some fine sand | NA | NA | NA NA | NA | Covered by point 03 |
| SD10-31.7L-05 | POINT | 31.7 | Sandy SILT | NA NA | NA | NA NA | NA | Covered by polygon 23 |
| SD09-31.8-1 | POINT | 31.8 | Brown silty SAND, medium gravel trace organics, no odor | NA | NA | 19 | NA | Not fine-grained sediment body. |
| SD09-31.8-2 | POINT | 31.8 | Brown silty SAND, medium gravel, trace organics, no odor | NA | NA | 20 | NA | Not fine-grained sediment body. |
| SD10-31.8L-01 | POINT | 31.8 | Silty fine SAND | NA . | NA | 21 | NA | |
| SD10-31.8L-02 | POINT | 31.8 | Silty fine SAND trace gravel | 2 | 2 | NA | 4.0 | |
| SD10-31.8L-03 | POINT | 31.8 | SILT with fine sand | 15 | 20 | NA NA | 300.0 | |
| SD10-31.8R-01 | POINT | 31.8 | Silty fine SAND trace gravel | 3 | 3 | NA | 9.0 | |
| SD09-31.9-1 | POINT | 31.9 | Brown silty SAND, medium to fine gravel, no odor | NA | NA | 17 | NA | Not fine-grained sediment body. |
| SD09-31.9-2 | POINT | 31.9 | Brown silty SAND, medium gravel trace organics, no odor | NA NA | NA | 18 | NA | |
| SD09-32.0-1 | POINT | 32.0 | Brown fine to medium SAND, medium gravel, no odor | NA NA | NA | 27 | NA | Not fine-grained sediment body. |
| SD09-32.0-2 | POINT | 32.0 | Brown fine silty SAND, some medium gravel, trace organics, no odor | NA | NA NA | 16 | NA | |
| SD10-32.0L-01 | POINT | 32.0 | SILT with some fine sand | 2 | 2 | NA NA | 4.0 | |
| SD10-32.0L-02 | POINT | 32.0 | Silty fine SAND | NA NA | NA | NA NA | NA | Not a significant fine-grained sediment body. |
| SD10-32.0R-01 | POINT | 32.0 | SILT trace sand | NA NA | NA NA | 27 | NA | |
| SD10-32.1R-01 | POINT | 32.1 | SILT with fine sand | 6 | 15 | NA NA | 90.0 | |
| SD09-32.2-1 | POINT | 32.2 | Brown/grey SILT, trace sand, medium gravel, some organics, no odor | NA | NA | 28 | · NA | |
| SD10-32.2L-01 | POINT | 32.2 | SILT WITH TRACE Fine sand | 12 | NA | NA | 113.0 | circle |
| SD09-32.3-1 | POINT | 32.3 | Brown sandy SILT, medium gravel, loose, some organics, no odor | NA. | NA | NA NA | NA | Man-made channel, not fine- grained sediment body. |
| SD09-32.3-2 | POINT | 32.3 | Grey sandy SILT, loose, some gravel, organics, no odor | NA. | NA | NA NA | NA | Included in sediment body summarized by SD10-32:3L-04 |
| SD10-32.3L-01 | POINT | 32.3 | SILT with some fine sand | 12 | 20 | NA NA | 240.0 | |
| SD10-32.3L-02 | POINT | 32.3 | SILT trace fine sand | 6 | 50 | NA NA | 300.0 | Same as SD10-32.3-L-06, but separate area |
| SD10-32.3L-03 | POINT | 32.3 | SILT trace fine sand | NA NA | NA | NA NA | NA | part of same body as 02 |
| SD10-32.3L-04 | POINT | 32.3 | SILT with some fine sand | 50 | 8 | NA | 400.0 | |
| SD10-32.3L-06 | POINT | 32.3 | SILT with some fine sand | 6 | 50 | NA NA | 300.0 | · · |
| SD09-32.9-1 | POINT | 32.9 | Brown silty SAND, loose, fine gravel, organics, no odor | NA | NA | NA NA | NA | Not fine-grained sediment body. |



| ID | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|---------------------|------------|--|-------------|------------|-----------------------|-----------------------|--|
| SD09-32.9-2 | POINT | 32.9 | Brown/grey sandy SILT, loose, medium to fine gravel, organics, no odor | 5 | 7 | NA | 35.0 | |
| SD09-32.9-3 | POINT | 32.9 | Grey SILT, trace fine sand, some medium gravel, organics, no odor | 10 | 6 | NA NA | 60.0 | |
| SD10-32.9L-02 | POINT | 32.9 | Sandy SILT | 1 | 1 | NA NA | 1.0 | |
| SD10-32.9R-01 | POINT | 32.9 | Sandy SILT | 3 | 3 | NA NA | 9.0 | |
| SD09-33.0-1 | POINT | 33.0 | Grey loose SILT, with some medium gravel, organics, no odor | 10 | 2 | . NA | 20.0 | |
| SD10-33,0R-01 | POINT | 33.0 | SILT with some fine sand and gravel | 1 | 1 | NA I | 1.0 | |
| SD09-33.1-2 | POINT | 33.1 | Grey SILT, some fine gravel, organics, no odor | 2 | 3 · | NA NA | 6.0 | |
| SD09-33.1-3 | POINT | 33.1 | Brown/grey SILT, some sand, medium gravel, organics, no odor | NA | NA | NA NA | NA | Covered by polygon 30 |
| SD10-33.1L-01 | POINT | 33.1 | SILT with some very fine sand | 6 | 6 | NA | 36.0 | |
| SD10-33,1L-02 | POINT | 33.1 | SILT trace fine sand | 3 | 7.5 | NA | 22.5 | |
| SD10-33.1L-03 | POINT | 33.1 | SILT trace fine sand | 3 | 7.5 | NA | 22,5 | part of same body as 02 |
| SD10-33,1L-05 | POINT | 33,1 | SILT trace fine sand | NA NA | NA | NA | NA | Part of polygon 30 |
| SD10-33.1L-06 | POINT | 33.1 | Silty fine SAND | 1 | 1 | NA NA | 1.0 | |
| SD09-33.2-1 | POINT | 33.2 | Dark brown, SILT, trace fine sand, some gravel, organics, no odor | 5 | 10 | NA NA | 50.0 | |
| SD09-33.2-2 | POINT | 33.2 | Brown sandy SILT, some gravel, organics, no odor | NA | NA NA | NA | NA | Covered by SD10-33.2L-02 |
| SD09-33.2-3 | POINT | 33.2 | Grey SILT, trace fine sand, no gravel, organics; no odor | NA NA | NA | N A | NA | Not found in 2010. Covered by other 2010 samples in this river mile. |
| SD10-33.2L-01 | POINT | 33.2 | Sandy SILT with some fine gravel | NA NA | NA | NA NA | NA | Not a significant fine-grained sediment body. |
| SD10-33,2L-02 | POINT | 33.2 | Sandy SILT with some fine gravel | 6 | 150 | NA NA | 900.0 | Extends from point 02 to point 05 |
| SD10-33.2L-03 | POINT | 33.2 | Sandy SILT with some fine gravel | NA | NA NA | NA NA | NA | Covered by area associated with point 02 |
| SD10-33.2L-04 | POINT | 33.2 | Sandy SILT with some fine gravel | NA NA | NA | NA NA | NA | Covered by area associated with point 02 |
| SD10-33.2L-05 | POINT | 33.2 | Sandy SILT with some fine gravel | NA | NA | NA | NA | Covered by area associated with point 02 |
| SD10-33.2L-06 | POINT | 33.2 | Sandy SILT with some fine gravel | NA NA | NA NA | NA NA | NA | Covered by area associated with point 02 |
| SD10-33.2L-08 | POINT | 33.2 | Sandy SILT with some fine gravel | 2 | 2 | NA NA | 4.0 | small area near bank interpreted as 2 ft square, similar to others. |



| ID | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|------------------|------------|--|-------------|------------|-----------------------|-----------------------|--|
| SD10-33,2R-01 | POINT | 33.2 | Sandy SILT with some gravel | 2 | 60 | NA | 120.0 | Covering from 33.2R-01 to 33.2R- 03, 2 ft wide narrow strip |
| SD10-33.2R-02 | POINT | 33.2 | Sandy SILT with some gravel | NA NA | NA | NA NA | NA | Covered by 33.2R-01 |
| SD10-33.2R-03 | POINT | 33.2 | SILT with some fine sand | NA NA | NA | NA . | NA | Covered by 33.2R-01 |
| SD10-33.2R-04 | POINT | 33.2 | SILT with some fine sand | 4 | 20 | NA | 80.0 | mislabeled as 32.3 |
| SD10-33.5L-01 | POINT | 33.5 | SILT with some fine sand | 8 | 8 | NA NA | 64.0 | |
| SD10-33.5L-02 | POINT | 33.5 | Sandy SILT | 5 | 5 | NA | 25.0 | |
| SD10-33.5L-03 | POINT | 33.5 | SILT with some fine sand | 5 | 5 | NA | 25.0 | - |
| SD10-33.5R-01 | POINT | 33.5 | SILT with some fine sand and leaves | 3 | 3 | NA NA | 9.0 | |
| SD10-33,5R-02 | POINT | 33.5 | Sandy SILT with some fine gravel | 1 | 1 | NA NA | 1.0 | |
| SD10-33,5R-03 | POINT | 33.5 | SILT with some fine sand | 10 | 2 | NA · | 20.0 | |
| SD09-33.6-1 | POINT | 33.6 | Grey SILT, medium to fine gravel, organics, no odor | 2 | 2 | NA. | 4.0 | |
| SD10-33.6L-01 | POINT | 33.6 | Sandy SILT | 1 | 1 | NA | 1.0 | |
| SD10-33.6L-02 | POINT | 33.6 | Silty fine SAND | 1 | 1 | NA NA | 1.0 | |
| SD10-33.6R-03 | POINT | 33.6 | SILT with some fine sand | 2 | 4 | NA NA | 8.0 | |
| SD10-33.6R-04 | POINT | 33.6 | SILT with some fine sand | 1 | 1 | NA NA | 1.0 | |
| SD10-33,7R-01 | POINT | 33.7 | SILT with some fine sand | 1 . | 1 | NA NA | 1,0 | |
| SD10-33.7R-02 | POINT | 33.7 | SILT with trace fine sand | 2 | 6 | NA NA | 12.0 | |
| SD09-33.8-1 | POINT | 33.8 | Brown SILT, trace sand, some medium gravel, organics, no odor | 3 | 3 | NA NA | 9.0 | |
| SD09-33:8-2 | POINT | 33.8 | Brown/grey SILT, trace fine sand, medium gravel, organics, no odor | 4 | 7 | NA | 28.0 | |
| SD10-33.8C-01 | POINT | 33.8 | Fine to medium SAND | 3 | 3 | NA | 9.0 | |
| SD10-33.8L-01 | POINT | 33.8 | SILT with some fine sand and gravel | 4 | 4 | NA NA | 16.0 | |
| SD10-33.8R-01 | POINT | 33.8 | SILT with some fine sand | 6 | 2 | NA NA | 12.0 | |
| SD10-33.9R-01 | POINT | 33.9 | SILT with some fine sand | 4 | 10 | NA NA | 40.0 | |
| SD10-33.9R-02 | POINT | 33.9 | SILT with some fine sand | 4 | 10 | NA | 40.0 | |
| SD10-33,9R-03 | POINT | 33.9 | SILT with some fine sand | 5 | 20 | NA · | 100.0 | |
| SD09-34.1-1 | POINT | 34.1 | NA NA | 3 | 1 | NA | 3.0 | |
| SD09-34.2-1 | POINT | 34.2 | Brown/grey SILT, trace fine sand, medium gravel, organics, no odor | 2 | 2 | NA NA | 4.0 | |
| SD09-34.3-1 | POINT | 34.3 | Brown/grey SILT, fine sand, fine gravel, organics, no odor | 10 | 4 | NA NA | 40.0 | |
| SD09-34.4-1 | POINT | 34.4 | Brown/grey SILT, trace fine sand, fine gravel, organics, no odor | 3 | 1 | NA NA | 3.0 | |
| SD09-34.4-2 | POINT | 34.4 | Brown/Grey SILT, some trace fine sand, some gravel, some organics, no odor | 5 | 2 | NA | 10.0 | |



| ID | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|------------------|------------|---|-------------|------------|-----------------------|-----------------------|---|
| SD10-34.4L-02 | POINT | 34.4 | Silty SAND | 3 | 3 | NA NA | 9.0 | |
| SD10-34.4L-03 | POINT | 34.4 | SILT with some fine sand | 2 | 2 | NA | 4.0 | |
| SD10-34.4R-01 | POINT | 34.4 | SILT with some fine sand and gravel | NA | NA | NA NA | NA | Covered by SD09-34.4-2 |
| SD09-34.5-1 | POINT | 34.5 | Brown/grey sandy SILT, some medium to fine gravel, organics, no odor | 10 | 2 | NA NA | 20.0 | |
| SD09-34.5-2 | POINT | 34.5 | Brown/grey sandy SILT, some gravel, organics, no odor | 1 | 1 | NA NA | 1.0 | |
| SD10-34.5R-01 | POINT | 34.5 | Silty CLAY with some fine sand and gravel | NA | NA | NA NA | NA | Not a fine-grained sediment body (CLAY BANK). |
| SD09-34.6-1 | POINT | 34.6 | Grey SILT, trace sand, some gravel, organics, no odor | . 5 | 1 | NA NA | 5.0 | |
| SD09-34.6-2 | POINT | 34.6 | Grey/brown SILT, fine sand, no gravel, no organics, no odor | 2 | 2 | NA NA | 4.0 | |
| SD09-34.6-3 | POINT | 34.6 | NA NA | 2 | 2 | NA NA | 4.0 | |
| SD09-34.6-4 | POINT | 34.6 | NA NA | 2 | . 2 | NA NA | 4.0 | |
| SD10-34.6L-01 | POINT | 34.6 | Sandy SILT with some clay | 3 | 20 | NA NA | 60.0 | |
| SD10-34.6L-02 | POINT | 34.6 | SILT with some fine sand | 5 | 10 | NA NA | 50.0 | |
| SD10-34.6L-03 | POINT | 34.6 | Silty SAND | 3 | 3 | NA NA | 9.0 | · |
| SD09-34.8-2 | POINT | 34.8 | Brown/grey MUCK, no gravel, organics, no odor | 2 | 2 | NA NA | 4.0 | |
| SD10-34.8R-01 | POINT | 34.8 | SILT with some fine sand | 3 | 20 | NA NA | 60.0 | |
| SD10-34.8R-02 | POINT | 34.8 | SILT with trace fine sand | 12 | 20 | NA NA | 240.0 | |
| SD09-34.9-2 | POINT | 34.9 | Grey sandy SILT, medium gravel, organics, no odor | 3 | 3 | NA NA | 9.0 | |
| SD10-34.9L-01 | POINT | 34.9 | SILT with some fine sand | 10 | 20 | NA NA | 200.0 | |
| SD10-34.9L-02 | POINT | 34.9 | Sandy SILT | 1 | 25 | NA NA | 25.0 | |
| SD10-34.9L-03 | POINT | 34.9 | SILT with some fine sand | 10 | 0 | NA . | 0.0 | Area data not recorded, minor compared to rest of areas in river mile |
| SD10-34.9R-01 | POINT | 34.9 | Sandy SILT | 1 | 1 | NA NA | 1.0 | |
| SD09-35.0-1 | POINT | 35.0 | Deep pool can't be waded across, parts feel soft but may be leaves, will need different method if want to sample. | NA | NA | NA. | NA | did not sample |
| SD09-35,1-1 | POINT | 35.1 | Grey/brown MUCK, no gravel, organics, no odor | 5 | NA | NA NA | 19.6 | circle |
| SD09-35.1-2 | POINT | 35.1 | Grey/brown sandy SILT, no gravel, organics, no odor | 10 | 3 | NA NA | 30.0 | |
| SD10-35.1L-01 | POINT | 35.1 | Sandy SILT | 1 | 1 | NA NA | 1.0 | |
| SD10-35,1R-01 | POINT | 35.1 | SILT with some fine sand | 3 | 3 | NA NA | 9.0 | |



| ID · | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|---------------------|------------|---|-------------|------------|-----------------------|-----------------------|--|
| SD10-35.1R-02 | POINT | 35.1 | SILT with some fine sand | 12 | 3 | NA NA | 36.0 | |
| SD10-35.1R-03 | POINT | 35.1 | SILT with some fine sand | 1 | 1 | NA NA | 1.0 | |
| SD09-35,2-1 | POINT | 35.2 | Dark grey MUCK, no gravel, organics, no odor | 1 | 1 | NA NA | 1.0 | |
| SD09-35.2-3 | POINT | 35.2 | | 3 | 3 | NA NA | 9.0 | |
| SD10-35.2L-01 | POINT | 35.2 | SILT with some fine sand | 2 | 6 | NA · | 12.0 | |
| SD10-35.2L-02 | POINT | 35.2 | SILT with some fine sand | 2 | 6 | NA NA | 12.0 | continuation of previous |
| SD10-35.2R-01 | POINT | 35.2 | SILT with some fine sand | 3 | 3 | NA NA | 9.0 | |
| SD10-35.2R-02 | POINT | 35.2 | SILT with some fine sand | NA NA | NA NA | NA NA | NA | Covered by SD09-35.2-3 |
| SD09-35.3-1 | POINT | 35.3 | Grey/brown sandy SILT, some medium gravel, no organics, no odor | 3 | 2 | NA NA | 6.0 | |
| SD09-35.3-2 | POINT | 35.3 | Grey SILT, some fine gravel, no organics, no odor | 3 | 2 | NA NA | 6.0 | |
| SD10-35.3L-01 | POINT | 35.3 | SILT | 2 | 6 | NA NA | 12.0 | |
| SD10-35.4C | POINT | 35.4 | | NA | NA | NA NA | 2,270.9 | Approximate area associated with composite sample SD10-35.4C |
| SD10-35.6R-01 | POINT | 35.6 | Sandy SILT | 2 | 2 | NA NA | 4.0 | |
| SD09-35.7-1 | POINT | 35.7 | Grey silty fine SAND, no gravel, organics, no odor | 2 | 2 | NA NA | 4.0 | |
| SD09-35.7-2 | POINT | 35.7 | Brown/grey silty fine SAND, fine gravel, organics, no odor | 1 | 1 - | NA NA | 1.0 | |
| SD09-35.7-3 | POINT | 35.7 | Brown/grey silty fine SAND, fine gravel, organics, no odor | 10 | 2 | NA NA | 20.0 | |
| SD10-35.7R-01 | POINT | 35.7 | SILT with some fine sand, trace gravel | 3 | 3 | NA NA | 9.0 | |
| SD09-35.8-1 | POINT | 35,8 | Grey/brown fine silty SAND, no gravel, no organics, no odor | 5 | NA | NA NA | 19.6 | circle |
| SD10-35.8R-02 | POINT | 35.8 | Sandy SILT | 2 | 2 | NA NA | 4.0 | |
| SD10-35.9R-01 | POINT | 35.9 | SILT with some fine sand | 40 | 10 | NA NA | 400.0 | |
| SD09-36.0-1 | POINT | 36 | Brown/Grey silty SAND, medium to fine gravel, organics, no odor | 2 | 7 | NA NA | 14.0 | |
| SD09-36.0-2 | POINT | 36.0 | On edge of deep pool, pool bottom mostly cobbles but upstream end has a gravelly sand with some fines, seems finer because loose. | NA | NA | NA NA | NA | Covered by SD10-36L-02 |
| SD09-36.0-3 | POINT | 36,0 | Brown fine silty SAND, some medium to fine gravel, some organics, no odor | 1 | 1 | NA. | 1.0 | |
| SD10-36.0L-01 | POINT | 36.0 | Silty SAND | NA NA | , NA | NA NA | NA | Covered by SD09-36.0-1 |
| SD10-36.0L-02 | POINT | 36.0 | SILT with some fine sand | 2 | 7 | NA NA | 14.0 | |
| SD09-36.1-1 | POINT | 36.1 | NA NA | 2 | 2 . | NA NA | 4.0 | |
| SD09-36,1-2 | POINT | 36.1 | Brown/grey SILT, loose, no gravel, no odor | 8 | 2 | NA NA | 16.0 | |



| ID | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|------------------|------------|--|-------------|------------|-----------------------|-----------------------|--|
| SD09-36.1-3 | POINT | 36.1 | Brown/grey SILT, loose, no gravel, no odor | 4 | 2 | NA NA | 8.0 | 3 |
| SD10-36.1L-01 | POINT | 36.1 | SILT | 3 | 5 | NA NA | 15.0 | |
| SD10-36.1L-02 | POINT | 36.1 | SILT with some fine sand | 40 | 3 | NA NA | 120.0 | |
| SD09-36.2-1 | POINT | 36.2 | Grey/brown SILT, trace fine sand, fine gravel, some organics, no odor | 2 | 2 | NA NA | 4.0 | |
| SD09-36.2-2 | POINT | 36.2 | Brown/grey SILT, trace fine sand, some fine gravel, no organics, no odor | 10 | 2 | NA NA | 20.0 | |
| SD10-36.2R-01 | POINT | 36.2 | SILT with some fine sand | 4 | 10 | NA NA | 40.0 | |
| SD09-36.3-1 | POINT | 36.3 | Brown/grey SILT, no gravel, some organics, no odor | 3 | 2 | NA NA | 6.0 | |
| SD09-36.3-2 | POINT | 36.3 | Brown/grey SILT, no gravel, some organics, no odor | 2 | 2 | NA NA | 4.0 | , |
| SD09-36.3-3 | POINT | 36.3 | Brown/grey SILT, no gravel, some organics, no odor | 2 | 3 | NA NA | 6.0 | |
| SD09-36.3-4 | POINT. | 36.3 | Brown/grey SILT, no gravel, some organics, no odor | NA | NA | NA | NA | Not found in 2010. Covered by other 2010 samples in this river mile. |
| SD09-36.3-5 | POINT | 36.3 | Brown/grey SILT, no gravel, some organics, no odor | 8 | 1 | NA . | 8.0 | |
| SD10-36.3L-01 | POINT | 36.3 | SILT with some fine sand | 2 | 3 | NA NA | 6.0 | |
| SD10-36,3L-02 | POINT | 36.3 | SILT with some fine sand | 3 | 25 | NA NA | 75.0 | |
| SD10-36.3L-03 | POINT | 36.3 | SILT with some fine sand | 80 | 3 | NA NA | 240.0 | |
| SD10-36.3R-01 | POINT | . 36.3 | SILT with some fine sand | 6 | 15 | NA NA | 90.0 | |
| SD09-36.4-10 | POINT | 36.4 | Brown/grey SILT, some organics, no gravel, no odor | 8 | 2 | NA NA | 16.0 | |
| SD09-36,4-11 | POINT | 36.4 | Grey SILT loose, no gravel, some organics, no odor | 30 | 7 | NA NA | 210.0 | |
| SD09-36.4-12 | POINT | 36.4 | aquatic vegetation | 8 | NA | NA NA | 50.2 | circle |
| SD09-36.4-2 | POINT | 36.4 | Grey SILT, loose, no gravel, some organics, no odor | 8 | 2 | NA NA | 16.0 | |
| SD09-36.4-3 | POINT | 36.4 | Brown/grey fine sandy SILT, no gravel, some organics, no odor | 3 | 3 | NA | 9.0 | |
| SD09-36.4-5 | POINT | 36.4 | Grey SILT loose, no gravel, some organics, no odor | 3 | 3 | NA NA | 9.0 | |
| SD09-36.4-6 | POINT | 36.4 | Grey SILT loose, no gravel, some organics, no odor | 2 | 1 | NA NA | 2.0 | |
| SD09-36.4-7 | POINT | 36.4 | Grey SILT loose, no gravel, some organics, no odor | NA | NA | NA | NA | Not found in 2010. Covered by other 2010 samples in this river mile. |



| 1D | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|------------------|------------|---|-------------|------------|-----------------------|-----------------------|-------|
| SD09-36,4-9 | POINT | 36.4 | Grey SILT loose, no gravel, some organics, no odor | 15 | 2 | NA NA | 30.0 | |
| SD10-36.4L-01 | POINT | 36.4 | SILT with trace fine sand | 2 | 3 | NA NA | 6.0 | |
| SD10-36.4L-02 | POINT | 36.4 | SILT with some fine sand | 2 | 2 | NA | 4.0 | |
| SD10-36.4L-03 | POINT | 36.4 | SILT with some fine sand | 3 | 10 | NA | 30.0 | |
| SD10-36.4L-04 | POINT | 36.4 | SILT with some fine sand | 3 | 15 | NA NA | 45.0 | |
| SD10-36,4R-01 | POINT | 36.4 | SILT with some fine sand | 5 | 10 | NA | 50.0 | |
| SD10-36.6L-01 | POINT | 36.6 | SILT with trace fine sand | 2 | 40 | NA · | 80.0 | |
| SD10-36.6L-02 | POINT | 36.6 | SILT with some fine sand | 2 | 3 | NA | 6.0 | |
| SD10-36.6L-03 | POINT | 36.6 | SILT with some fine sand | 2 | 10 | NA NA | 20.0 | |
| SD10-36.6L-04 | POINT | 36.6 | SILT with some fine sand | 2 | 1 | NA NA | 2.0 | |
| SD10-36.6L-05 | POINT | 36.6 | SILT with some fine sand | 2 | 30 | NA NA | 60.0 | · |
| SD10-36.6L-06 | POINT | 36.6 | SILT with some fine sand | 1 | 2 | NA NA | 2.0 | |
| SD10-36.6R-01 | POINT | 36.6 | SILT with some fine sand | 2 | 4 | NA | 8.0 | |
| SD10-36,6R-02 | POINT | 36.6 | SILT with some fine sand | 3 | 6 | NA NA | 18.0 | |
| SD10-36,6R-03 | POINT | 36.6 | SILT with some fine sand | 2 | 4 | NA NA | 8.0 | |
| SD09-36.7-1 | POINT | 36.7 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 1 | 1 | NA. | 1.0 | |
| SD09-36.7-2 | POINT | 36.7 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 8 | 2 . | NA. | 16.0 | |
| SD09-36,7-3 | POINT | 36.7 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | NA | NA | 33 | NA | |
| SD09-36.7-4 | POINT | 36.7 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 12 | 2 | NA NA | 24.0 | |
| SD09-36.8-1 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 2 | 2 | NA | 4.0 | |
| SD09-36.8-10 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 5 | . 2 | NA NA | 10.0 | |
| SD09-36.8-11 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 5 | 2 | NA NA | 10.0 | |
| SD09-36.8-12 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 25 | 3 | NA NA | 75.0 | |
| SD09-36.8-13 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 8 | 4 | NA NA | 32.0 | |
| SD09-36.8-14 | POINT | 36.8 | Grey/brown SILT, no gravel, some organics, no odor | 25 | 8 | NA NA | 200.0 | |
| SD09-36.8-2 | POINT | . 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 10 | 2 | NA NA | 20.0 | |



| ID | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|------------------|------------|--|-------------|------------|-----------------------|-----------------------|------------------|
| SD09-36.8-3 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 10 | NA | NA NA | 78,5 | circle |
| SD09-36.8-4 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 12 | 2 | NA NA | 24.0 | |
| SD09-36.8-5 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 5 | NA | NA NA | 19.6 | circle |
| SD09-36.8-6 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 8 | NA | NA NA | 25.1 | semicircle |
| SD09-36.8-7 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 25 | 8 | NA | 200.0 | |
| SD09-36.8-8 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 12 | 4 | NA | 48.0 | |
| SD09-36.8-9 | POINT | 36.8 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 3 | 3 | NA NA | 9.0 | |
| SD09-36.9-1 | POINT | 36.9 | Brown/grey SILT, no gravel, no organics, no odor | 12 | 2 | NA NA | 24.0 | |
| SD09-36.9-2 | POINT | 36.9 | Grey/brown sandy SILT, fine gravel, no organics, no odor | 2 | 2 | NA NA | 4.0 | |
| SD09-36.9-3 | POINT | 36.9 | Grey/brown SILT, trace fine sand, no gravel, organics, no odor | 30 | 4 | NA NA | 105.0 | 2 areas combined |
| SD09-36.9-4 | POINT | 36.9 | Grey SILT, no gravel, organics, no odor | 3 | 2 | NA NA | 6.0 | |
| SD09-36.9-5 | POINT | 36.9 | Dark Grey MUCK, trace fine sand, no gravel, some organics, no odor | 20 | 3 | NA NA | 60.0 | |
| SD09-37.0-1 | POINT | 37.0 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 20 | 4 | NA NA | 80.0 | |
| SD09-37.0-2 | POINT | 37.0 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 14 | 3 | NA NA | 46.0 | 2 areas combined |
| SD09-37.0-3 | POINT | 37.0 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | NA | NA | 35 | NA NA | |
| SD09-37.0-4 | POINT | 37.0 | Grey sandy SILT, some fine gravel, no organics, no odor | 3 | 3 | NA · | 9.0 | |
| SD10-37.0L-01 | POINT | 37.0 | SILT with some fine sand | 3 | 25 | NA NA | 75.0 | |
| SD10-37.0L-02 | POINT | 37.0 | SILT with some fine sand | 5 | 10 | NA NA | 50.0 | |
| SD10-37.0L-03 | POINT | 37.0 | Sandy SILT | 3 | 4 | NA NA | 12.0 | |
| SD10-37.0L-04 | POINT | 37.0 | SILT With trace fine sand | NA NA | NA NA | 37 | NA NA | |
| SD10-37.0R-01 | POINT | 37.0 | SILT with some fine sand | 2 | 3 | NA NA | 6.0 | |
| SD10-37.0R-02 | POINT | 37.0 | SILT with trace fine sand | 3 | 3 | NA NA | 9.0 | |
| SD10-37.0R-03 | POINT | 37.0 | SILT with trace fine sand | NA NA | NA | 36 | NA . | |



| ID | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|---------------|---------------------|------------|--|-------------|------------|-----------------------|-----------------------|--|
| SD10-37.1R-01 | POINT | 37.1 | SILT with trace fine sand | NA | NA | NA | 770.4 | 15% coverage of entire RM 37.1 polygon |
| SD09-37.2-1 | POINT | 37.2 | Grey SILT, trace fine sand, no gravel, no odor | 10 | 4 | NA NA | 20.0 | 50 % covered |
| SD09-37.2-2 | POINT | 37.2 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 6 | 3 | NA NA | 18.0 | |
| SD09-37.2-3 | POINT | 37.2 | Brown/Grey sandy SILT, no gravel, organics, no odor | 1 | 1 | NA NA | 1.0 | |
| SD09-37.2-4 | POINT | 37.2 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 5 | 5 | NA NA | 25.0 | |
| SD09-37.2-5 | POINT | 37.2 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 2 | 15 | NA. | 30.0 | |
| SD10-37.2L-01 | POINT | 37.2 | SILT with trace fine sand | 7 | 7 | NA NA | 49.0 | |
| SD10-37.2L-02 | POINT | 37.2 | SILT with trace fine sand | NA | NA | NA NA | NA | Not a significant fine-grained sediment body. Covered by other polygons in area. |
| SD10-37.2R-01 | POINT | 37.2 | SILT with trace sand | NA | NA | 42 | NA | |
| SD10-37.2R-02 | POINT | 37.2 | SILT with trace fine sand | NA NA | NA | NA NA | NA | Not a fine-grained sediment body (note of odor). |
| SD09-37.3-1 | POINT | 37.3 | Grey SILT, trace fine sand, fine gravel, organics, no odor | 4 | 4 | NA NA | 16.0 | |
| SD09-37.3-2 | POINT | 37.3 | NA | 18 | 175 | NA NA | 630.0 | 20% coverage |
| SD09-37.3-3 | POINT | 37.3 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | NA | NA | NA NA | NA | Replaced by SD10-37.3R-02 |
| SD09-37.3-4 | POINT | 37.3 | Brown/grey sandy SILT, medium to fine gravel, no organics, no odor | 4 | 2 | NA | 8.0 | |
| SD09-37.3-5 | POINT | 37.3 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 2 | 2 | NA NA | 4.0 | |
| SD10-37.3R-01 | POINT | 37.3 | SILT with trace fine sand | NA NA | NA | 42 | NA | 20% coverage |
| SD10-37.3R-02 | POINT | 37.3 | SILT with trace fine sand | 15 | 5 | NA NA | 75.0 | |
| SD10-37.3R-03 | POINT | 37.3 | Sandy SILT | 1 | 10 | NA NA | 10.0 | |
| SD09-37.4-1 | POINT | 37.4 | Grey/brown MUCK, no gravel, no organics, no odor | 3 | 5 | NA . | 15.0 | |
| SD10-37.4L-01 | POINT | 37.4 | SILT with trace sand | 3 | 3 | NA NA | 9.0 | |
| SD10-37.4L-02 | POINT | 37.4 | Sandy SILT | 1 | 5 | NA NA | 5.0 | |
| SD10-37.4L-03 | POINT | 37.4 | SILT with some fine sand | 2 | 4 | NA NA | 8.0 | |
| SD10-37.4L-04 | POINT | 37.4 | SILT | NA NA | NA NA | NA NA | NA | Covered by RM 37.5 areas |
| SD10-37.4R-01 | POINT | 37.4 | SILT with some fine sand | 2 | 3 | NA NA | 6.0 | |
| SD09-37.5-1 | POINT | 37.5 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 40 | 5 | NA NA | 200.0 | |



| ID | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | - NOTES |
|---------------|------------------|------------|---|-------------|------------|-----------------------|-----------------------|------------------------|
| SD09-37.5-2 | POINT | 37.5 | Grey MUCK, no gravel, organics, no odor | 4 | 7 | NA NA | 28.0 | |
| SD09-37.5-3 | POINT | 37.5 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 30 | 5 | NA NA | 150.0 | |
| SD09-37.5-4 | POINT | 37.5 | Grey SILT, trace fine sand, no gravel, no odor | 15 | 3 | NA NA | 45.0 | |
| SD10-37.5L-01 | POINT | 37.5 | SILT with trace fine sand | NA NA | NA | NA NA | NA | Covered by SD09-37.5-3 |
| SD10-37.5L-02 | POINT | 37.5 | SILT with some fine sand | 25 | 5 | NA NA | 125.0 | |
| SD10-37.5R-01 | POINT | 37.5 | SILT with some fine sand | 3 | 25 | NA NA | 75.0 | |
| SD10-37.5R-02 | POINT | 37.5 | SILT with some fine sand | 25 | 5 | NA NA | 125.0 | |
| SD09-37.6-1 | POINT | 37.6 | Grey/brown SILT, trace fine sand, no gravel, no organics, no odor | 35 | 8 | NA NA | 280.0 | |
| SD10-37.6L-01 | POINT | 37.6 | SILT with trace fine sand | 2 | 2 | NA NA | 4.0 | |
| SD10-37.6R-01 | POINT | 37.6 | SILT with trace fine sand | 3 | 15 | NA NA | 45.0 | |
| SD10-37.6R-02 | POINT | 37.6 | SILT with some fine sand | 1 | 1 | NA NA | 1.0 | |
| SD10-37.6R-03 | POINT | 37.6 | SILT with trace fine sand | 10 | 1 | NA NA | 10.0 | |
| 26 | POLYGON | 31.2 | | | | NA NA | 218.8 | |
| 25 | POLYGON | 31.3 | · | | | NA NA | 273.7 | |
| 22 | POLYGON | 31.7 | | | | NA | 282.5 | |
| 23 | POLYGON | 31.7 | | NA NA | NA | NA NA | 5.3 | |
| 24 | POLYGON | 31.7 | | | | NA NA | 30.9 | |
| 21 | POLYGON | 31.8 | | | | NA NA | 71.4 | |
| 17 | POLYGON | 31.9 | | | | NA NA | 77.5 | |
| 18 | POLYGON | 31.9 | | | | NA NA | 812.2 | |
| 16 | POLYGON | 31.9 | | | | NA NA | 311.7 | |
| 28 | POLYGON | 32.2 | | | | NA NA | 104.9 | |
| 29 | POLYGON | 32.2 | | NA NA | NA | NA NA | 135.0 | |
| 27 | POLYGON | 32 | | | | NA NA | 2,420.2 | |
| 33 | POLYGON | 36.7 | | | | NA NA | 84.3 | |
| 35 | POLYGON | 37.0 | Sediment caught in aquatic vegetation | NA NA | NA NA | NA NA | 283.7 | |
| 36 | POLYGON | 37 | 10% of polygon has fine-grained sediment. | | | NA NA | 241.9 | |
| 37 | POLYGON | 37 | 10% of polygon has fine-grained sediment, 70% of polygon is in this river mile. | | | NA NA | 166.1 | |
| 37 | POLYGON | 37.1 | 10% of polygon has fine-grained sediment, 30% of polygon is in this river mile. | | | NA | 71.2 | |
| 38 | POLYGON | 37.1 | aquatic vegetation | NA. | NA | NA NA | 230.0 | |
| 39 | POLYGON | 37.1 | aquatic vegetation | NA NA | NA NA | NA NA | 245.8 | |
| 40 | POLYGON | 37.1 | Silty material under bridge | NA | NA | NA NA | 147.0 | |
| 41 | POLYGON | 37.1 | Silty material under bridge | NA NA | NA | NA NA | 139.2 | |



| ID | POINT or POLYGON | RIVER MILE | DESCRIPTION | LENGTH (FT) | WIDTH (FT) | ASSOCIATED POLYGON ID | SURFACE AREA (FT²) | NOTES |
|----|------------------|------------|--|-------------|--------------------|-----------------------|-----------------------|---|
| 42 | POLYGON | 37.2 | | | 7,07,107,00,000,00 | NA NA | 48.4 | - |
| 43 | POLYGON | 37.4 | Silty aquatic vegetation | NA | NA NA | NA NA | 260.4 | |
| 44 | POLYGON | 37.4 | Silty aquatic vegetation, extends upstream along bank 35 ft, 3 ft wide | NA | NA | NA NA | | Drawn polygon plus additional 3x35 extension. |
| 45 | POLYGON | 37.5 | Silty aquatic vegetation approx area | NA NA | NA | NA NA | 374.1 | |
| 46 | POLYGON | 37.6 | Area along bank of silty aquatic vegetation. strong organic odor | NA | NA | NA NA | 628.0 | |
| 48 | POLYGON | 37.6 | aquatic vegetation | NA | NA | NA. | 162.7 | |

NA = Not Applicable.



Table 7 MFLBC Mirex SWACs for Sediment PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| River Mile Reach | Mirex SWAC (mg/kg) |
|------------------|--------------------|
| 31.1 - 32.0 | 0.106 |
| 32.1 - 33.0 | 0.0565 |
| 33.1 - 34.0 | 0.164 |
| 34.5 - 35.4 | 0.899 |
| 35.6 - 36.5 | 0.127 |
| 36.7 - 37.6 | 0.219 |

Table 8 MFLBC Validated Floodplain Soil Analytical Results Summary PDI Technical Memorandum

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| | | | Parameter | | Mirex | | Total C | rganic Ca | arbon | Solids, Percent | Gravel Content | Sand Content | Fines Content (Silt + Clay) |
|------------------------------|----------------|-------------|-------------|--------|-------|--------|---------|-----------|-------|-----------------|----------------|--------------|--------------------------------|
| | | | Unit | | mg/kg | | | mg/kg | | percent | percent | percent | percent |
| Composite Sample Location | Sample ID | Sample Type | Sample Date | Result | Qual | RL | Result | Qual | RL | Result | Result | Result | Result |
| FPS10-001 | FPS10-001 | N | 9/20/2010 | 0.014 | | 0.0038 | 16,000 | J | 440 | 57.4 | 0.0 | 39.0 | 61.0 |
| FPS10-001 | FPS10-001 | FD | 9/20/2010 | 0.0086 | | 0.004 | 12,000 | J | 450 | 55.0 | NA | NA | NA |
| FPS10-002-01 | FPS10-002-01 | N | 9/20/2010 | 0.56 | | 0.03 | 14,000 | | 340 | 72.9 | 1.1 | 40.6 | 58.3 |
| FPS10-003 | FPS10-003 | N | 9/20/2010 | 0.45 | | 0.03 | 16,000 | | 340 | 74.0 | 0.9 | 51.2 | 47,9 |
| FPS10-004 | FPS10-004 | N | 9/21/2010 | 0.51 | | 0.038 | 22,000 | | 430 | 58.1 | 0.0 | 42.2 | 57.8 |
| FPS10-005 | FPS10-005 | N | 9/21/2010 | 0.17 | | 0.048 | 13,000 | | 550 | 45.8 | 0.0 | 35.3 | 64.7 |
| FPS10-006 | FPS10-006 | N | 9/21/2010 | 0.30 | | 0.029 | 13,000 | | 330 | 75.3 | 6.8 | 52.4 | 40.8 |
| FPS10-007 | FPS10-007 | N | 9/21/2010 | 0.60 | | 0.026 | 8,000 | | 300 | 83.3 | 1.1 | 72.3 | 26.6 |
| FPS10-008-01 | FPS10-008-01 | N | 9/21/2010 | 0.090 | | 0.028 | 11,000 | | 320 | 77.6 | 0.9 | 57.3 | 41.8 |
| FPS10-008-02 | FPS10-008-02 | N | 9/21/2010 | 0.0096 | J . | 0.003 | 16,000 | | 340 | 74.2 | 3.0 | 40.8 | 56.2 |
| FPS10-010 | FPS10-010 | N | 9/22/2010 | 0.17 | | 0.029 | 17,000 | | 330 | 76.7 | 0.0 | 67.2 | 32.8 |
| FPS10-011 | FPS10-DUP-H-02 | FD | 9/22/2010 | 0.28 | J | 0.03 | 13,000 | | 340 | 74.4 | NA | NA | NA . |
| FPS10-011 | FPS10-DUP-H-02 | N | 9/22/2010 | 0.71 | J | 0.03 | 17,000 | | 340 | 73,2 | 0.4 | 61.3 | 38.3 |
| FPS10-012 | FPS10-012 | N | 9/23/2010 | 1.1 | | 0.029 | 14,000 | | 330 | 75.8 | 0.1 | 50.7 | 49.2 |
| FPS10-013 | FPS10-013 | N | 9/28/2010 | 0.69 | J | 0.035 | 8,100 | | 400 | 62.6 | 0.5 | 27.2 | 72.3 |
| FPS10-013 | FPS10-013 | FD | 9/28/2010 | 1.1 | J | 0.03 | 8,700 | | 340 | 72.7 | NA | NA | NA |
| FPS10-014 | FPS10-014 | N | 9/28/2010 | 0.75 | | 0.032 | 2,800 | | 370 | 67.9 | 0.4 | 33.1 | 66:5 |
| FPS10-015 | FPS10-015 | N | 9/28/2010 | 0.45 | J | 0.038 | 4,600 | | 430 | 58.1 | 0.0 | 30.8 | 69.2 |
| FPS10-016 | FPS10-016 | N | 9/28/2010 | 0.88 | J | 0.034 | 4,800 | | 380 | 65.4 | 0.0 | 29.0 | 71.0 |
| FPS10-017 | FPS10-017 | N | 9/28/2010 | 0.95 | j | 0.031 | 4,300 | | 360 | 69.9 | 0.0 | 41.8 | 58.2 |
| FPS10-018 | FPS10-018 | N | 9/29/2010 | 0.17 | | 0.028 | 3,500 | | 320 | 78.2 | 0.8 | 53.2 | 46.0 |
| FPS10-018 | FPS10-018 | FD | 9/29/2010 | 0.23 | J | 0.028 | 4,700 | | 320 | 77.6 | NA | NA | NA |
| FPS10-019 | FPS10-019 | N | 9/29/2010 | 0.68 | | 0.028 | 5,000 | | 320 | 79.1 | 6.7 | 49.1 | 44.2 |
| FPS10-020 | FPS10-020 | N | 9/29/2010 | 1.3 | | 0.029 | 4,600 | | 330 | 75.4 | 0.0 | 36.1 | 63.9 |
| FP\$10-021 | FP\$10-021 | N | 9/29/2010 | 0.88 | | 0.029 | 4,900 | | 340 | 74.6 | 0.0 | 32.9 | 67.1 |
| FPS10-022 | FPS10-022 | N | 9/29/2010 | 1.3 | - | 0.027 | 3,900 | | 310 | 81.2 | 3.2 | 47.1 | 49.7 |
| FPS10-023 | FP\$10-023 | N | 9/30/2010 | 0.13 | | 0.037 | 25,000 | | 850 | 58.8 | 0.8 · | 39.9 | 59.3 |
| FPS10-024 | FPS10-024 | N | 9/30/2010 | 0.18 | | 0.032 | 28,000 | | 730 | 68.4 | 0.0 | 31.6 | 68.4 |
| FPS10-027 | FPS10-027 | N | 9/30/2010 | 0.10 | | 0.039 | 29,000 | | 880 | 56.8 | 0.0 | 24.9 | 75.1 |
| FPS10-028 | FPS10-028 | N | 9/30/2010 | 0.010 | | 0:0041 | 5,600 | | 930 | 53.7 | 0.0 | 26.7 | 73:3 |
| FPS10-029 | FPS10-029 | N | 10/1/2010 | 0.73 | | 0.027 | 22,000 | | 620 | 80.7 | 0.9 | 23.3 | 75.8 |
| FPS10-030 | FPS10-030 | N | 10/1/2010 | 0.30 | J | 0.03 | 18,000 | | 680 | 73.5 | 2.9 | 34.2 | 62.9 |
| FPS10-030 | FPS10-030 | FD | 10/1/2010 | 0.83 | J | 0.029 | 21,000 | | 670 | 75.0 | NA | NA | NA |
| FPS10-031 | FPS10-031 | N | 10/1/2010 | 0,42 | J | 0,029 | 27,000 | | 660 | 75.5 | 0.0 | 15.1 | 84.9 |



Table 8 MFLBC Validated Floodplain Soil Analytical Results Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

Fines Content Parameter Mirex **Total Organic Carbon** Solids, Percent **Gravel Content** Sand Content (Silt + Clay) Unit mg/kg mg/kg percent percent percent percent Composite Sample RĹ Result Sample ID Sample Type Sample Date Result Qual RL Result Qual Result Result Result Location FPS10-032 FPS10-032 10/1/2010 0.74 0.028 20,000 630 79.1 0.0 41.4 58.6 FPS10-033 30,000 690 72.7 0.0 13.7 86.3 FPS10-033 N 10/1/2010 0.59 0.03 FPS10-034 FPS10-034 N 10/1/2010 0.028 26,000 640 77.7 0.0 25.2 74.8 1.1 FPS10-035 FPS10-035 N 10/2/2010 0.11 0.029 5.800 330 75.6 0.7 31.3 68.0 FD 0.17 330 75.7 NA NA NA FPS10-035 FPS10-035 10/2/2010 0.029 6,900 75.2 34.0 66.0 FPS10-036 FPS10-036 N 10/2/2010 0.79 0:029 7.500 330 0.0 FPS10-037 FPS10-037 N 10/2/2010 0.44 0.03 5,900 350 72.3 0.0 27.2 72.8 J 84.7 53.1 46.9 FPS10-038 FPS10-038 N 10/2/2010 0.47 0.026 4,600 300 0.0 77.0 41.4 FPS10-039 FPS10-039 N 10/3/2010 0,65 0.029 3,700 320 0.0 58.6 50.3 FPS10-040 FPS10-040 N 10/3/2010 0,36 0.03 5,100 340 73.8 1.6 48.1 62.8 24.6 75.4 FPS10-041 FPS10-041 N 10/4/2010 1.1 0.035 1,900 400 0.0 28.0 71.8 FPS10-042 FPS10-042 N 10/4/2010 0.22 0.0067 NA 65.8 0.2 0.007 62.8 0.0 14.3 85.7 FPS10-043 FPS10-043 N 10/4/2010 0.28 NA 420 59.4 NA NA NA FPS10-044 FPS10-DUP9 FD 10/4/2010 0:62 0.037 1,100 FPS10-044 FPS10-DUP9 10/4/2010 0.67 0.038 1.200 440 57.3 0.0 10.3 89.7 N 74.9 FPS10-045 N 10/4/2010 1.4 0.03 1,100 340 73.4 0.0 25.1 FPS10-045 65.2 15.4 84.6 FPS10-046 FPS10-046 Ν 10/4/2010 0.91 0.034 1,100 380 0,0 350 72.2 NA NA NA FPS10-047 FPS10-047 N 10/5/2010 0.60 0.03 920 0.57 4,200 340 72.9 0.5 42.1 57.4

0.03

0.33

0.34

0.15

0.16

0.31

0.31

0.31

0.032

J

33,000

31,000

34,000

7.900

17,000

19,000

32,000

39,000

1800

1900

1700

360

350

1800

1700

1800

67.7

65.0

72.6

69.7

71.2

70.9

72.1

69.3

NA

0.0

0.0

1.0

0.0

NA

0.0

0.0

NA

16.1

39.1

24.6

32.9

NA

39.0

36,5

NA

83.9

60.9

74.4

67.1

NA

61.0

63,5

Notes:

N = normal

FD = field duplicate

FPS10-048

FPS10-053

FPS10-053

FPS10-054

FPS10-056

FPS10-057

FPS10-057

FPS10-058

FPS10-066

Qual = validated qualifier

RL = laboratory reporting limit

mg/kg = milligrams per kilogram

NA = not analyzed (Grain size distribution was not analyzed for duplicate samples.)

FPS10-048

FPS10-053 FD

FPS10-053 FD

FPS10-054

FPS10-056

FPS10-057

FPS10-057

FPS10-058

FPS10-066

N

FD

N

N

N

N

FD

N

N

10/5/2010

3/28/2011

3/28/2011

3/29/2011

3/29/2011

3/29/2011

3/29/2011

3/29/2011

3/31/2011

0.71

0.74

0.97

0.47

0.98

1.0

0.73

0.14

Qualifiers:

J = estimated result



Table 9 MFLBC Fish Tissue Analytical Results Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| | - | Parameter | | Mirex | | Percent Lipids |
|----------------|-----------------|------------|--------|-------|--------|----------------|
| | | Unit | | mg/kg | | % |
| Sample ID | Species | Туре | Result | Qual | RL | Result |
| FT10-12.5-CC-F | Common Carp | Fillet | 0.121 | | 0.0497 | 3.31 |
| FT10-12.5-CC-O | Common Carp | Offal | 0.444 | | 0.193 | 8.69 |
| FT10-12.5-WS-F | White Sucker | Fillet | 0.0582 | | 0.0298 | 0.437 |
| FT10-12.5-WS-O | White Sucker | Offal | 0.189 | | 0.0996 | 1.18 |
| FT10-32.0-CC-F | Common Carp | Fillet | 0.516 | | 0.194 | 1.15 |
| FT10-32.0-CC-O | Common Carp | Offal | 1.300 | | 0.498 | 3.65 |
| FT10-32.0-WS-F | White Sucker | Fillet | 0.286 | | 0.0994 | 0.785 |
| FT10-32.0-WS-O | White Sucker | Offal | 1.470 | | 0.499 | 3.43 |
| FT10-32.0-YB-F | Yellow Bullhead | Fillet | 0.324 | | 0.0998 | 1.23 |
| FT10-32.0-YB-O | Yellow Bullhead | Offal | 1.650 | | 0.497 | 5.58 |
| FT10-33.3-CC-F | Common Carp | Fillet | 1.220 | | 0.498 | 1.53 |
| FT10-33.3-CC-O | Common Carp | Offal | 3.380 | | 0.991 | 5.17 |
| FT10-33.3-WS-F | White Sucker | Fillet | 0.130 | | 0.0492 | 0.640 |
| FT10-33.3-WS-O | White Sucker | Offal | 1.020 | | 0.484 | 3.18 |
| FT10-35.4-WS-F | White Sucker | Fillet | 0.151 | | 0.0997 | 0.788 |
| FT10-35.4-WS-O | White Sucker | Offal | 0.889 | | 0.497 | 3.65 |
| FT10-35.4-YB-F | Yellow Bullhead | Fillet | 0.200 | | 0.0995 | 0.666 |
| FT10-35.4-YB-O | Yellow Bullhead | Offai | 1.270 | | 0.499 | 4.59 |
| FT10-36.7-WS-F | White Sucker | Fillet | 0.194 | | 0.0964 | 0.888 |
| FT10-36.7-WS-O | White Sucker | Offal | 1.420 | | 0.489 | 4.63 |
| FT10-36.7-YB-O | Yellow Bullhead | Whole Body | 0.744 | | 0.249 | 4.18 |
| FT10-37.5-WS-F | White Sucker | Fillet | 0.0581 | | 0.0196 | 1.20 |
| FT10-37.5-WS-O | White Sucker | Offa! | 0.341 | | 0.200 | 6.01 |
| FT10-38.4-WS-F | White Sucker | Fillet | ND | U | 0.0099 | 1.38 |
| FT10-38.4-WS-O | White Sucker | Offal | ND | U | 0.0099 | 4.47 |

Notes:

Qual = laboratory qualifier
RL = laboratory reporting limit
mg/kg = milligrams per kilogram
ND = Not Detected
Qualifiers:
U = not detected above RL



Table 10 MFLBC Fish Tissue Sample Weight Summary PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

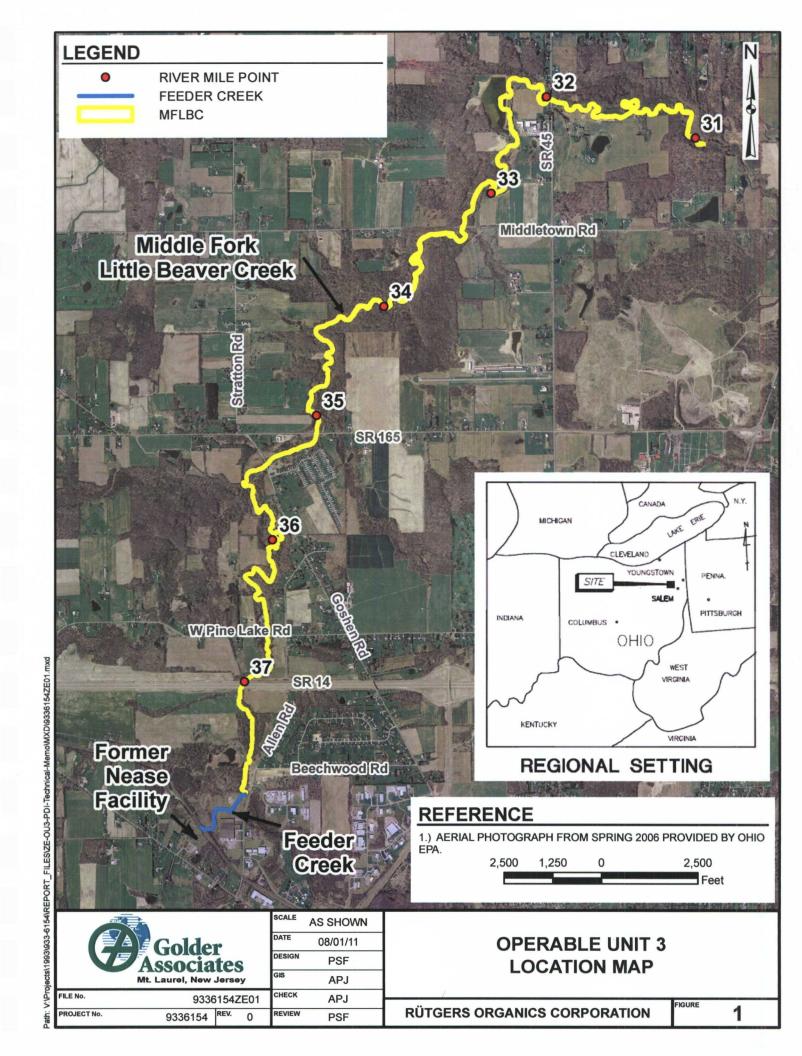
| Sample ID | Fillet / Offal | Ohio EPA Lab Weight (g) | Field-Measured Weight (g) |
|----------------|----------------|----------------------------|------------------------------|
| FT10-12.5-CC-F | Fillet | 1670 | 1675 |
| FT10-12.5-CC-O | Offal | 6926 | 7200 |
| FT10-12.5-WS-F | Fillet | 444 | 466 |
| FT10-12.5-WS-O | Offal | 1498 | 1505 |
| FT10-32.0-CC-F | Fillet | 908 | 958 |
| FT10-32.0-CC-O | Offal | 4004 | 3625 |
| FT10-32.0-WS-F | Fillet | 336 | 351 |
| FT10-32.0-WS-O | Offal | 894 | 905 |
| FT10-32.0-YB-F | Fillet | 22 | 105 |
| FT10-32.0-YB-O | Offal | 152 | 352 |
| FT10-33.3-CC-F | Fillet | 1134 | 1525 |
| FT10-33.3-CC-O | Offal | 3848 | 5225 |
| FT10-33.3-WS-F | Fillet | 292 | 322 |
| FT10-33.3-WS-O | Offal | 890 | 924 |
| FT10-35.4-WS-F | Fillet | 286 | 295 |
| FT10-35.4-WS-O | Offal | 814 | 810 |
| FT10-35.4-YB-F | Fillet | 80 | 84 |
| FT10-35.4-YB-O | Offal | 287 | 290 |
| FT10-36.7-WS-F | Fillet | 102 | 252 |
| FT10-36.7-WS-O | Offal | 314 | 742 |
| FT10-36.7-YB-O | Offal | 156 | 158 |
| FT10-37.5-WS-F | Fillet | 224 | 239 |
| FT10-37.5-WS-O | Offal | 686 | 715 |
| FT10-38.4-WS-F | Fillet | 142 | 150 |
| FT10-38.4-WS-O | Offal | 370 | 365 |

Significant reductions in "lab" weight as compared to the field-measured weight in highlighted rows are due to analysis of split samples by Test America. Ohio EPA Lab weights were used in the calculation of whole body concentrations. TestAmerica data are not relied upon in this report.

For samples FT10-33.3-YB-O and FT10-36.7-YB-O, the samples were collected as Whole Body composites because there was insufficient tissue to fillet.

Table 11 MFLBC Fish Tissue Calculated Whole Body Results PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| Whole Body Sample | Whole-Body Mirex (mg/kg) | Whole-Body %Lipids | Mirex Whole Body-To- Fillet Ratio | Lipids Whole Body-To Fillet Ratio |
|-------------------|--------------------------------|-----------------------|--------------------------------------|--------------------------------------|
| FT10-12.5-WS | 0.159 | 1.0 | 2.73 | 2.31 |
| FT10-12.5-CC | 0.381 | 7.6 | 3.15 | 2.31 |
| FT10-32.0-YB | 1.48 | 5.0 | 4.58 | 4.09 |
| FT10-32.0-WS | 1.15 | 2.7 | 4.01 | 3.45 |
| FT10-32.0-CC | 1.16 | 3.2 | 2.24 | 2.77 |
| FT10-33.3-WS | 0.800 | 2.6 | 6.15 | 3.99 |
| FT10-33.3-CC | 2.89 | 4.3 | 2.37 | 2.84 |
| FT10-35.4-YB | 1.04 | 3.7 | 5.18 | 5.61 |
| FT10-35.4-WS | 0.697 | 2.9 | 4.62 | 3.69 |
| FT10-36.7-WS | 1.12 | 3.7 | 5.77 | 4.18 |
| FT10-37.5-WS | 0.271 | 4.8 | 4.67 | 4.02 |
| FT10-38.4-WS | ND (< 0.0099) | 3.6 | N/A | 2.62 |
| FT10-36.7-YB | 0.744 | 4.2 | No Fillet Analyzed | No Fillet Analyzed |





RIVER MILE POINT

SEDIMENT SAMPLING AREA MFLBC



FLOODPLAIN SOIL SAMPLE

FEEDER CREEK

1,800 900 0 1,800 Feet

 PROJECT NO.
 933-615

 FILE No.
 9336154ZE0

 REV. 1
 SCALE: AS SHOW

 DESIGN
 APJ
 08/01/11

 GIS
 AM
 08/01/11

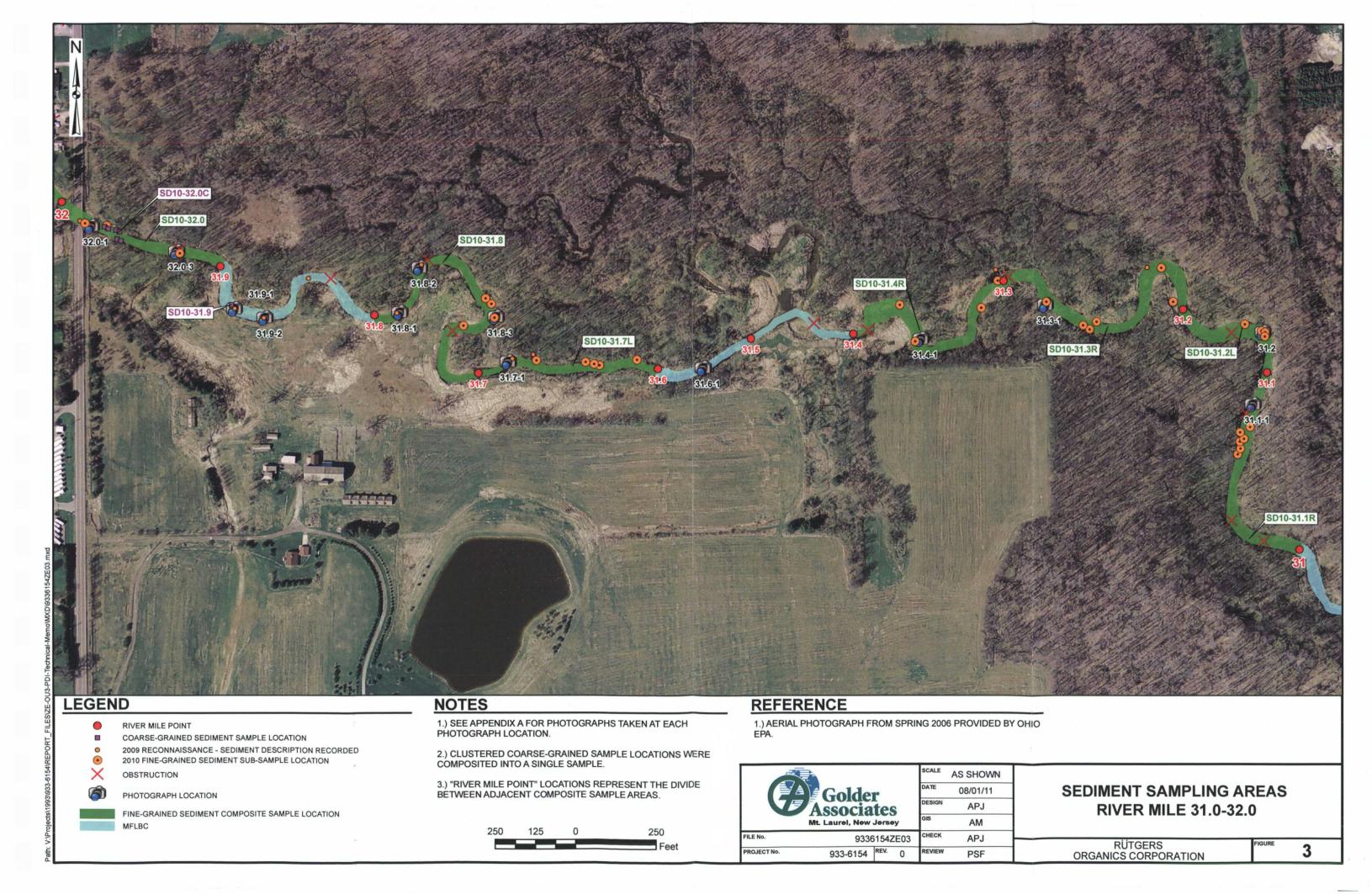
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 APJ
 08/01/11

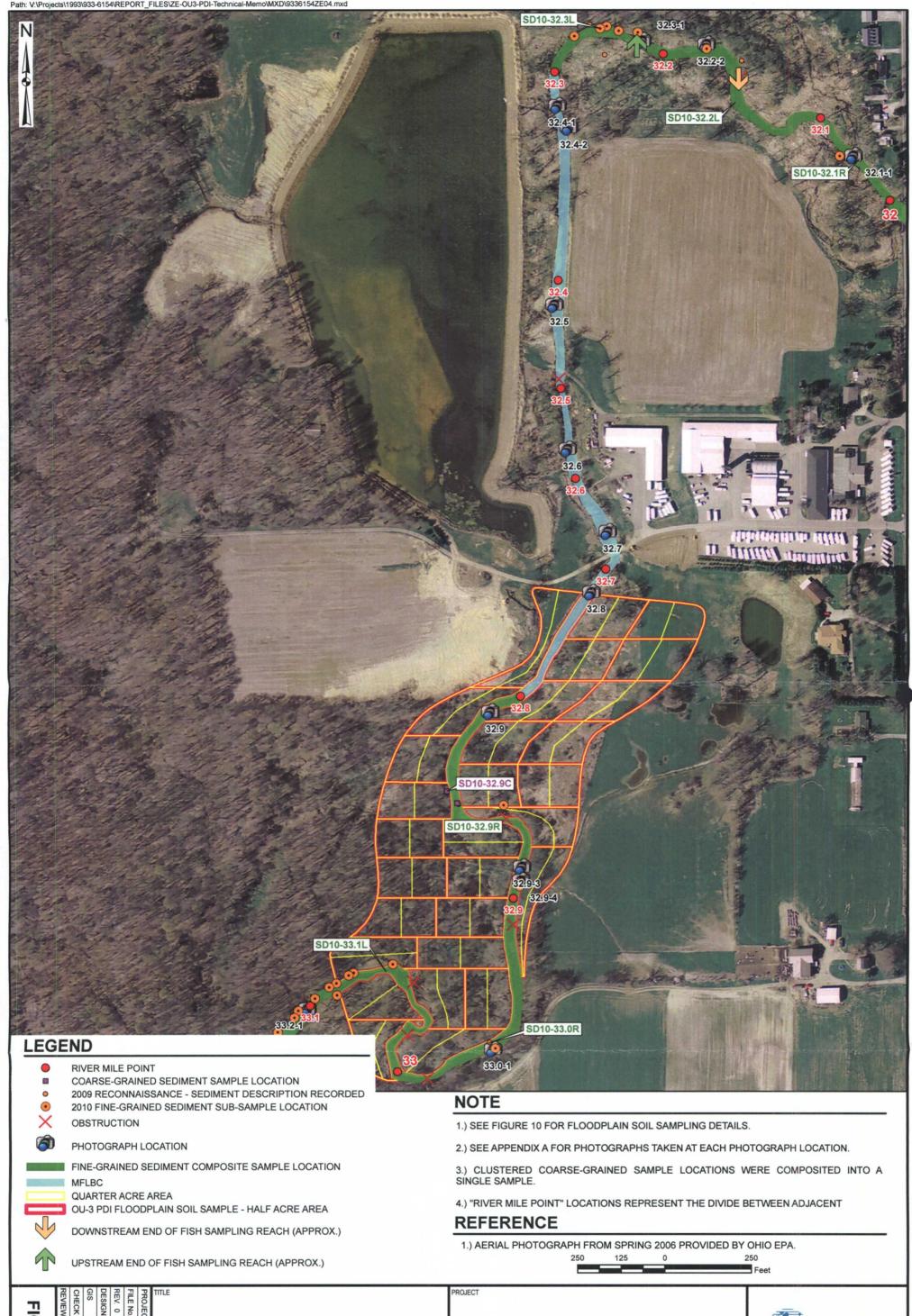
 REVIEW
 PSF
 08/01/11

OVERALL
PDI SAMPLING PROGRAM

PROJECT







 PROJECT No.
 933-6154

 FILE No.
 9336154ZE04

 REV. 0
 SCALE: AS SHOWN

 DESIGN
 APJ
 08/01/11

 GIS
 AM
 08/01/11

 CHECK
 APJ
 08/01/11

 REVIEW
 PSF
 08/01/11

SEDIMENT SAMPLING AREAS RIVER MILE 32.1-33.0



FIGURE

933-6154 9336154ZE05 E: AS SHOWN 08/01/11

RIVER MILE 33.1-34.0

ORGANICS CORPORATION



FIGURE 7

 KOJECT No.
 933-6154

 JE No.
 933-6154ZE07

 IV. 0
 SCALE: AS SHOWN

 ISIGN
 APJ
 08/01/11

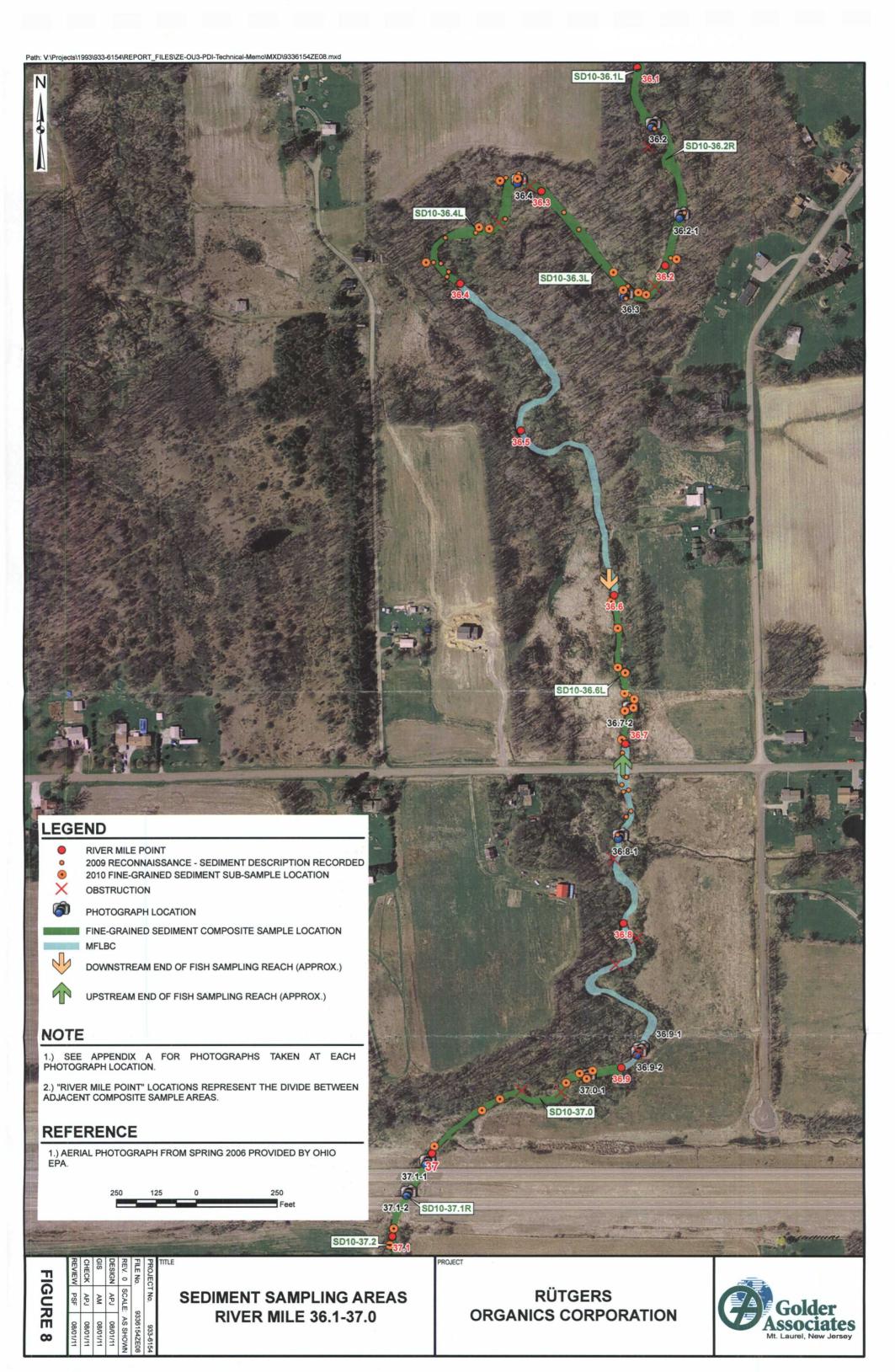
 S
 AM
 08/01/11

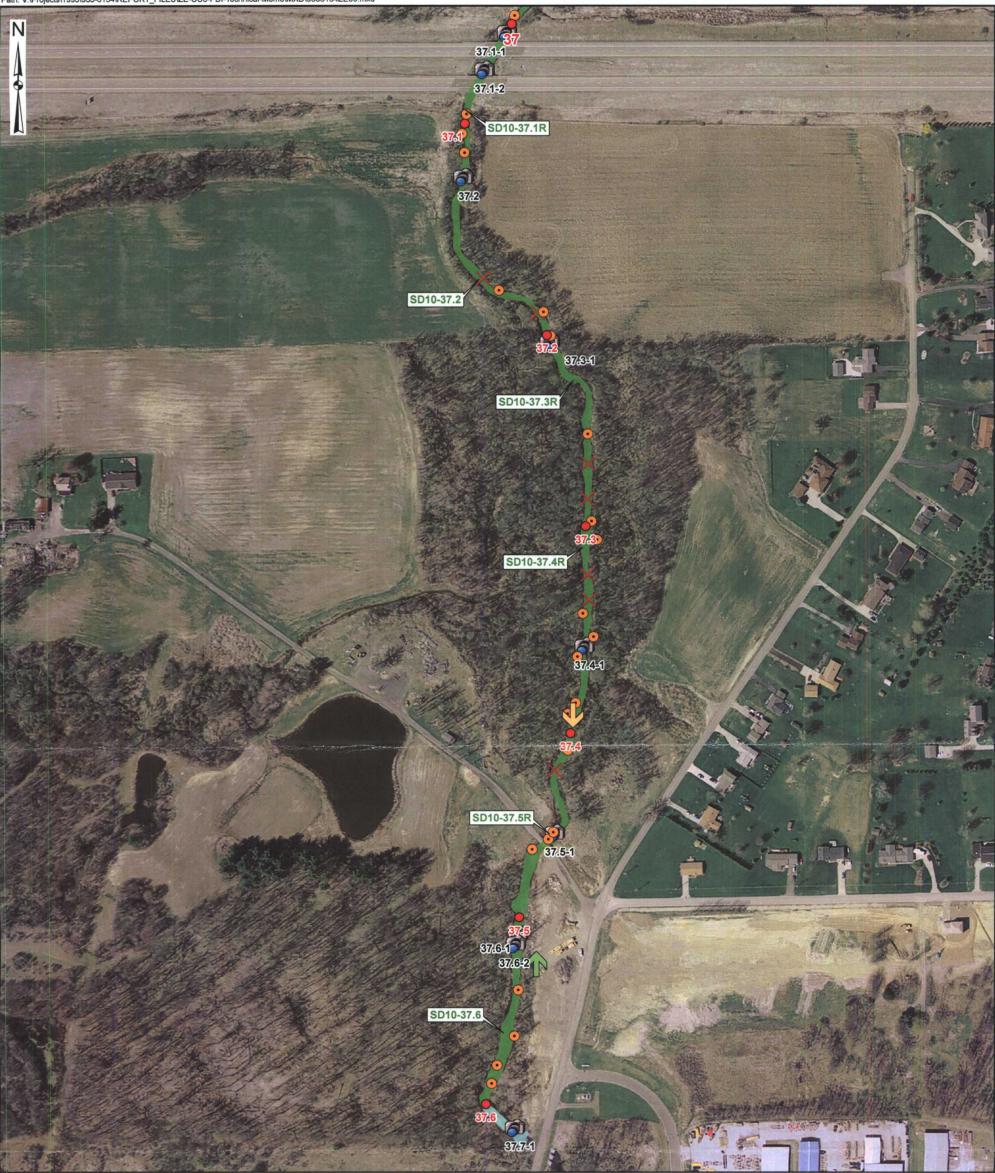
 HECK
 APJ
 08/01/11

 VIEW
 PSF
 08/01/11

SEDIMENT SAMPLING AREAS RIVER MILE 35.1-36.0







RIVER MILE POINT

2009 RECONNAISSANCE - SEDIMENT DESCRIPTION RECORDED 2010 FINE-GRAINED SEDIMENT SUB-SAMPLE LOCATION

OBSTRUCTION

PHOTOGRAPH LOCATION

FINE-GRAINED SEDIMENT COMPOSITE SAMPLE LOCATION MFLBC



UPSTREAM END OF FISH SAMPLING REACH (APPROX.)

DOWNSTREAM END OF FISH SAMPLING REACH (APPROX.)

NOTE

PROJECT

- 1.) SEE APPENDIX A FOR PHOTOGRAPHS TAKEN AT EACH PHOTOGRAPH LOCATION.
- 2.) "RIVER MILE POINT" LOCATIONS REPRESENT THE DIVIDE BETWEEN ADJACENT COMPOSITE SAMPLE AREAS.

REFERENCE

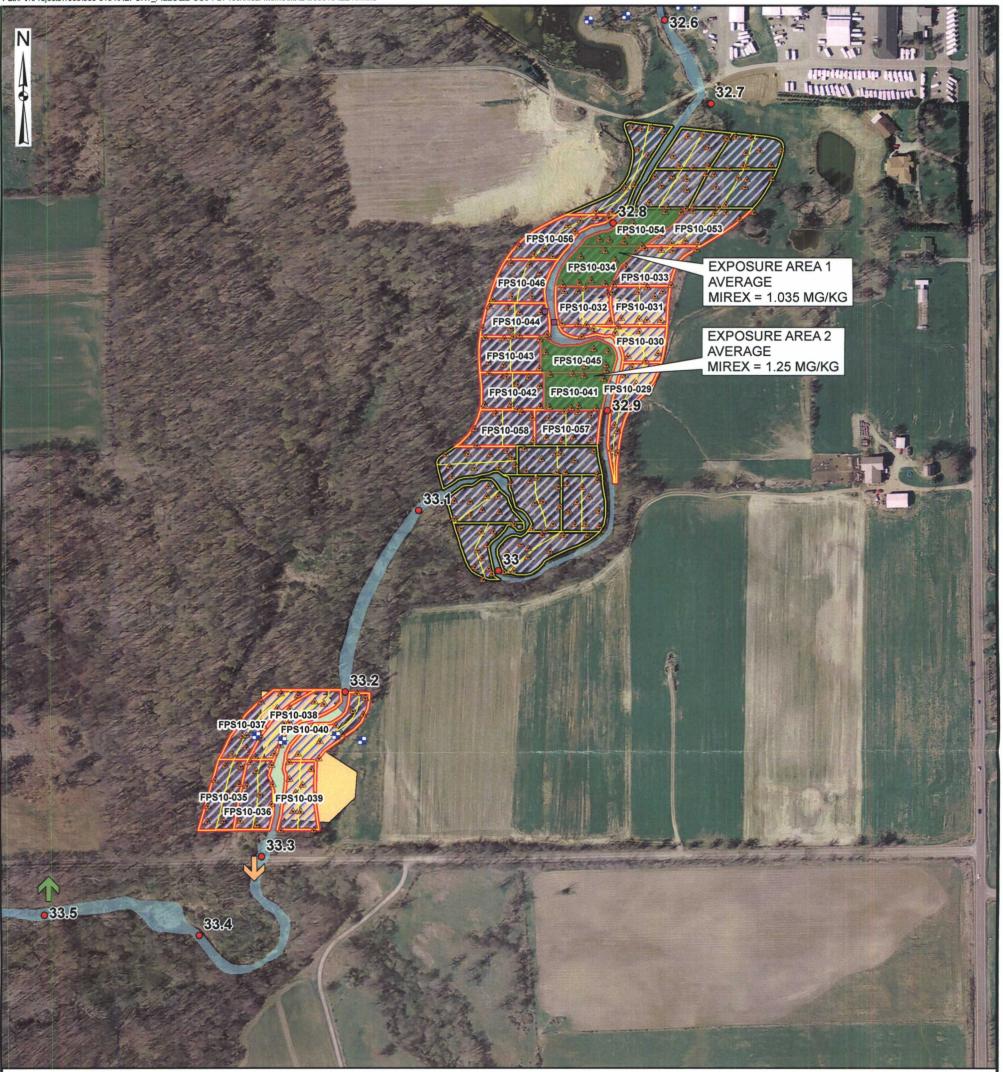
1.) AERIAL PHOTOGRAPH FROM SPRING 2006 PROVIDED BY OHIO EPA.



FIGURE

PROJECT FILE No. REV. 0 S TITLE

SEDIMENT SAMPLING AREAS RIVER MILE 37.1-37.6



- 2010-2011 OU3 PDI FLOODPLAIN SOIL SUB SAMPLE LOCATION
- RI FLOODPLAIN SOIL SAMPLE LOCATION
- COARSE-GRAINED SEDIMENT SAMPLE LOCATION -



DOWNSTREAM END OF FISH SAMPLING REACH (APPROX.)



UPSTREAM END OF FISH SAMPLING REACH (APPROX.)



QUARTER ACRE AREA



OU3 PDI FLOODPLAIN SOIL SAMPLE - ANALYZED



FLOODPLAIN SOIL EXPOSURE AREA



2006 COMPOSITE FLOODPLAIN SOIL SAMPLE LOCATION



MIDDLE FORK LITTLE BEAVER CREEK

TITLE

OU3 PDI FLOODPLAIN SOIL SAMPLE - ARCHIVED

NOTE

PROJECT

WITH MIREX > 1 MG/KG.

REFERENCE

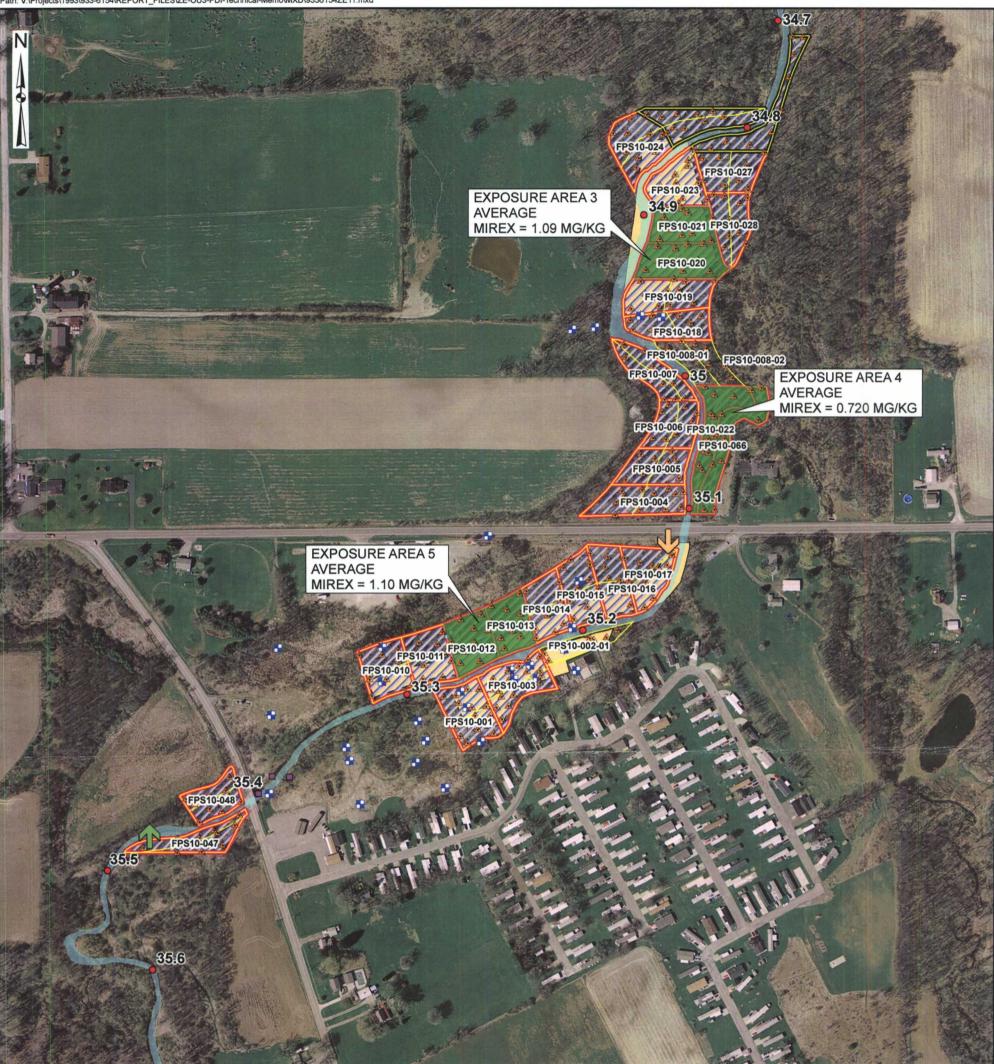
1.) AERIAL FROM SPRING 2006 PROVIDED BY OHIO EPA.



PROJECT No.
FILE
REV. 0 SCAL
DESIGN APJ FIGURE SCALE: APJ APJ PSF 933-6154
9336154ZE10
E: AS SHOWN
08/01/11
08/01/11
08/01/11

FLOODPLAIN SAMPLING MAP **RIVER MILE 32.9-33.3 VICINITY**





- RIVER MILE POINT
- △ 2010-2011 OU3 PDI FLOODPLAIN SOIL SUB SAMPLE LOCATION
- RI FLOODPLAIN SOIL SAMPLE LOCATION
- COARSE-GRAINED SEDIMENT SAMPLE LOCATION



QUARTER ACRE AREA

OU3 PDI FLOODPLAIN SOIL SAMPLE - ARCHIVED
OU3 PDI FLOODPLAIN SOIL SAMPLE - ANALYZED

TITLE

FLOODPLAIN SOIL EXPOSURE AREA

2006 COMPOSITE FLOODPLAIN SOIL SAMPLE LOCATION

MIDDLE FORK LITTLE BEAVER CREEK

<u>NOTE</u>

PROJECT

1.) EXPOSURE AREAS WERE DEVELOPED TO INCLUDE ALL 1/2 ACRE SAMPLE RESULTS WITH MIREX > 1 MG/KG.

REFERENCE

1.) AERIAL FROM SPRING 2006 PROVIDED BY OHIO EPA.



 PROJECT No.
 933-6154

 FILE OU3_PDI_UpdateMap-02

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 SCALE: AS SHOWN

 DESIGN
 APJ
 08/01/11

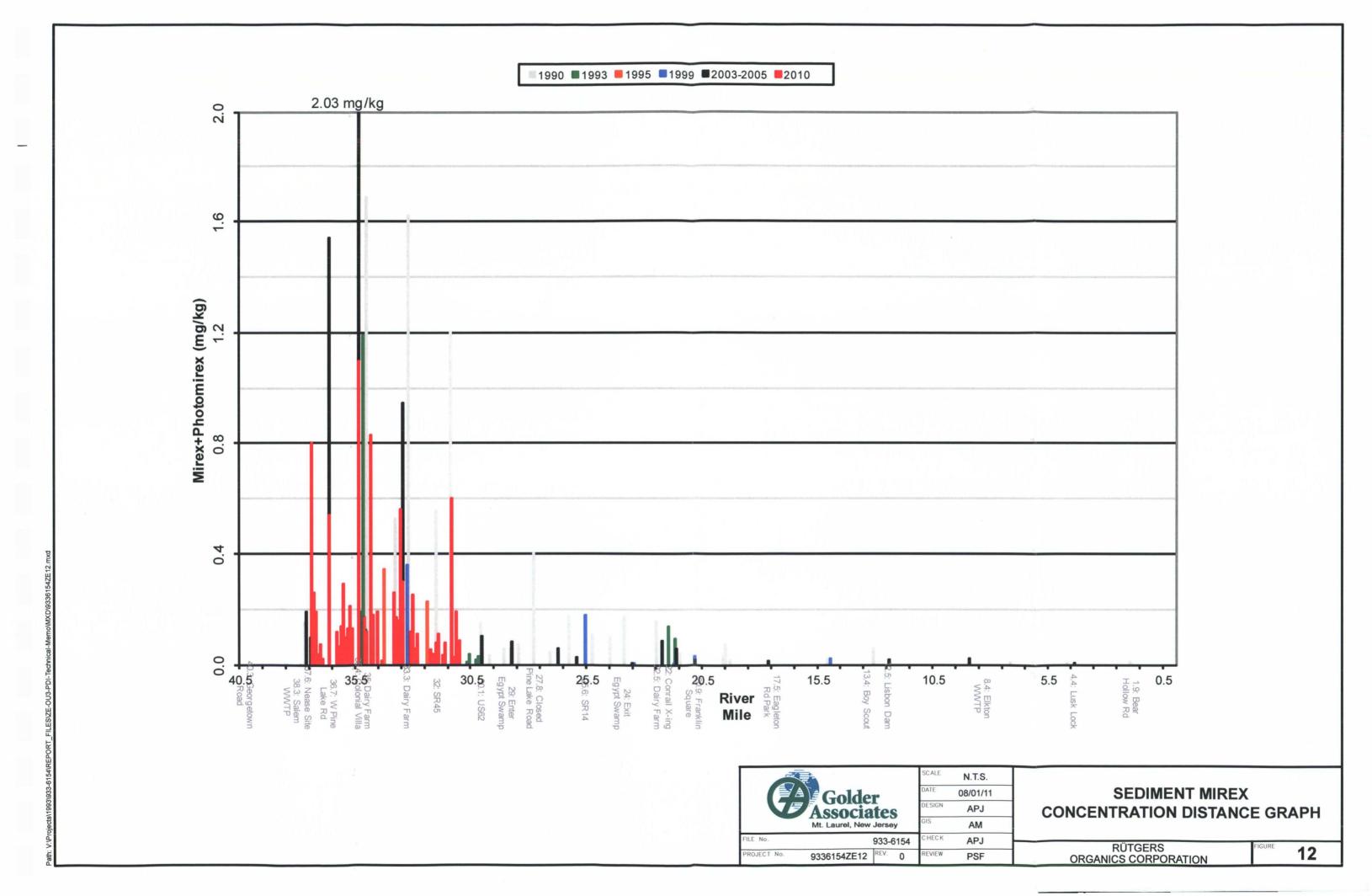
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 APJ
 08/01/11

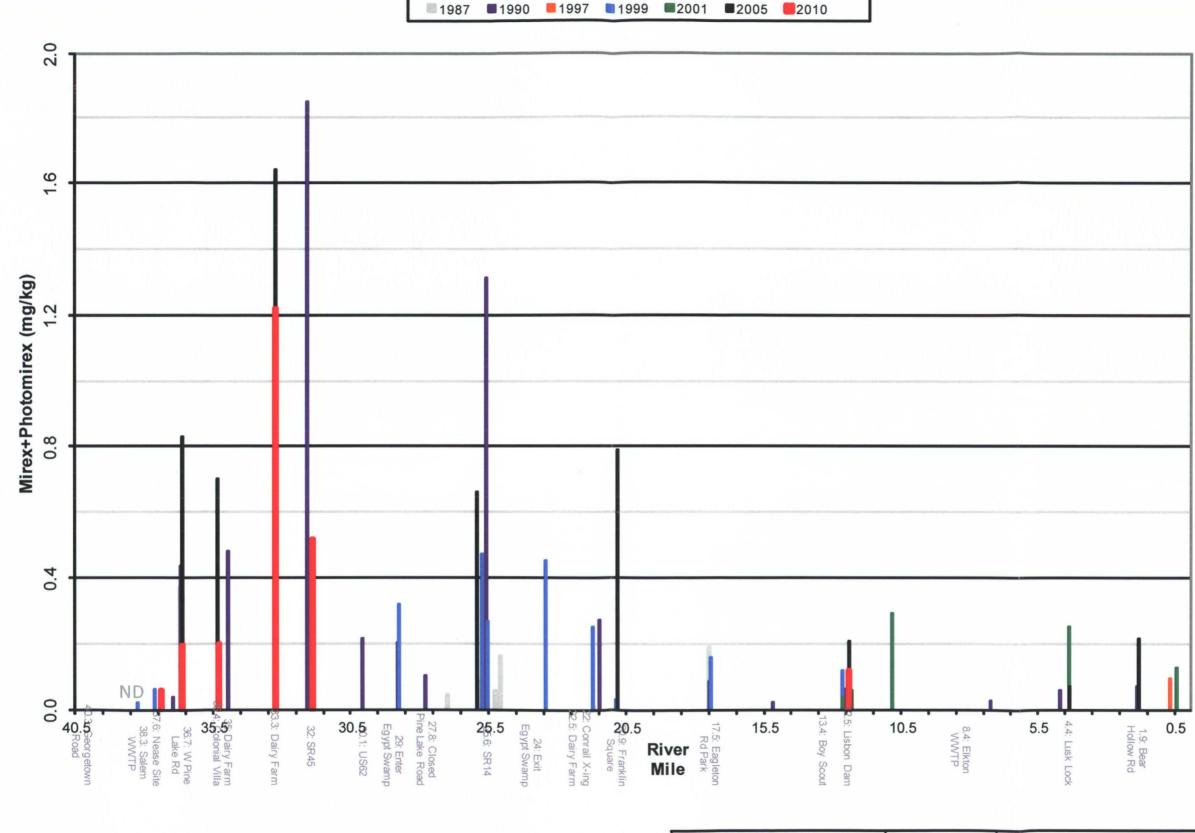
 CHECK
 APJ
 08/01/11

 REVIEW
 PSF
 08/01/11

FLOODPLAIN SAMPLING MAP RIVER MILE 34.8-35.4 VICINITY







NOTE

1.) CONCENTRATION SHOWN AT EACH RIVER MILE IS THE MAXIMUM DETECTION AMONG SEVERAL SPECIES COLLECTED. IN MOST CASES THERE ARE ADDITIONAL SAMPLES WITH LOWER CONCENTRATIONS.

| | Golde | | SCALE DATE DESIGN |
|-------------|----------------------------|----------|-------------------------|
| V | ASSOCIA Mt. Laurel, New | | GIS |
| FILE No. | | 933-6154 | CHECK |
| PROJECT No. | 9336154ZE13 | REV. 0 | REVIEW |

N.T.S.

08/01/11 APJ

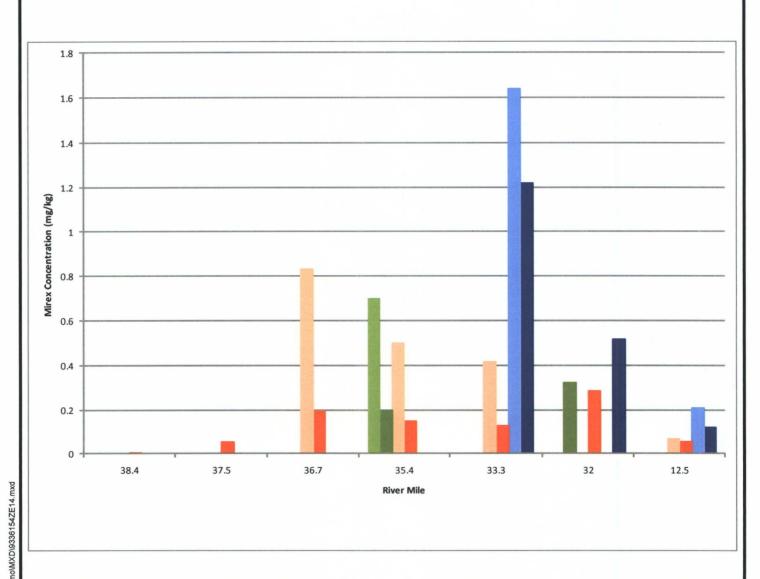
APJ

PSF

FISH TISSUE FILLET MIREX **CONCENTRATION DISTANCE GRAPH**

RÜTGERS ORGANICS CORPORATION

13



- COMMON CARP 2005 FILLET
- COMMON CARP 2010 FILLET
- WHITE SUCKER 2005 FILLET
- WHITE SUCKER 2010 FILLET
- YELLOW BULLHEAD 2005 FILLET

933-6154

YELLOW BULLHEAD - 2010 - FILLET



9336154ZE14

| SCALE | N.T.S. |
|--------|----------|
| DATE | 08/01/11 |
| DESIGN | APJ |
| GIS | AM |
| CHECK | APJ |
| REVIEW | PSF |

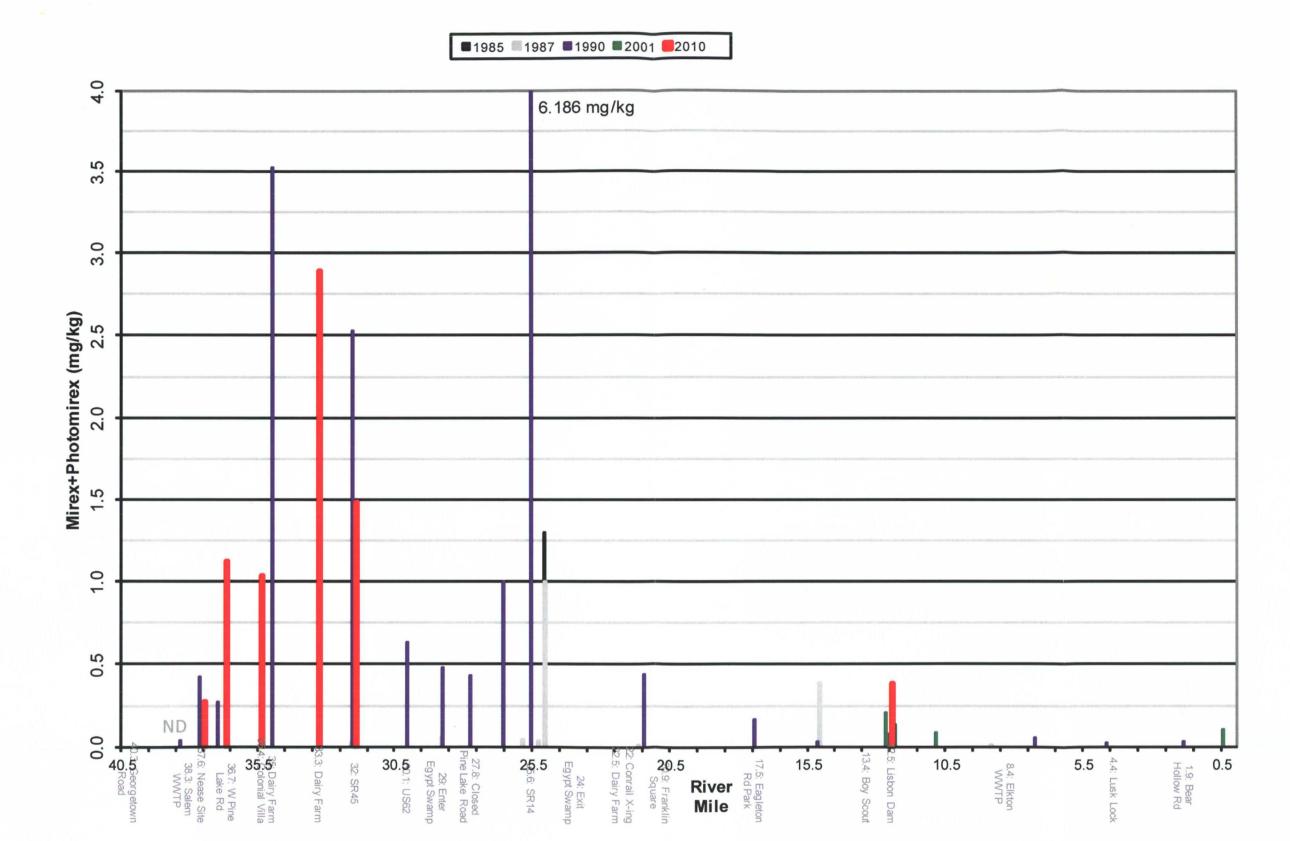
COMPARISON OF 2005 AND 2010 FISH TISSUE FILLET MIREX CONCENTRATIONS

RÜTGERS ORGANICS CORPORATION

14

Path: V:Projects/1993/933-6154/REPORT_FILES/ZE-OU3-PDI-Technical-Memo/MXD/9336154ZE14.mxd

PROJECT No.



NOTE

1.) CONCENTRATION SHOWN AT EACH RIVER MILE IS THE MAXIMUM DETECTION AMONG SEVERAL SPECIES COLLECTED. IN MOST CASES THERE ARE ADDITIONAL SAMPLES WITH LOWER CONCENTRATIONS.

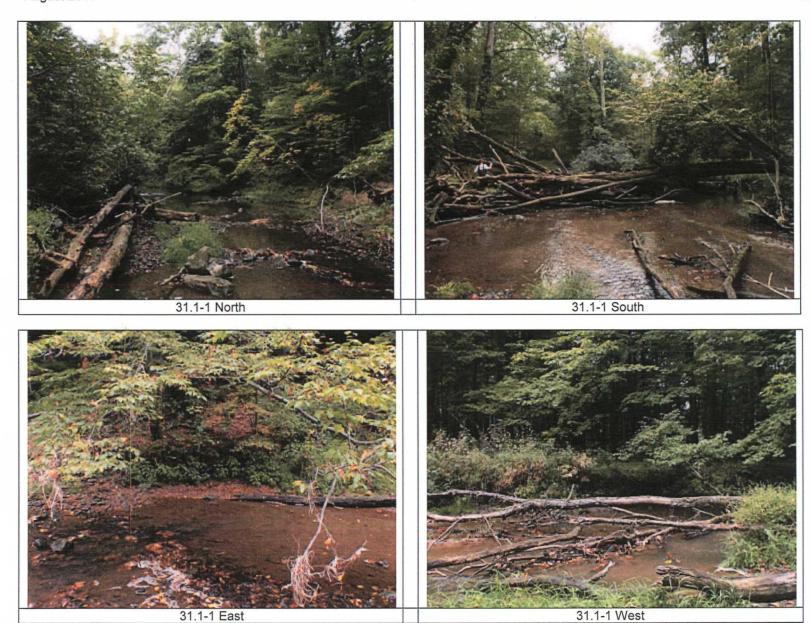
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|-------------|----------------------------|-------|------|--------|--------------------|
| | ASSOCIA Mt. Laurel, New | ites | | DESIGN | APJ AM |
| FILE No. | | 933-6 | 6154 | CHECK | APJ |
| PROJECT No. | 9336154ZE15 | REV. | 0 | REVIEW | PSF |

FISH TISSUE WHOLE BODY MIREX CONCENTRATION DISTANCE GRAPH

RÜTGERS ORGANICS CORPORATION

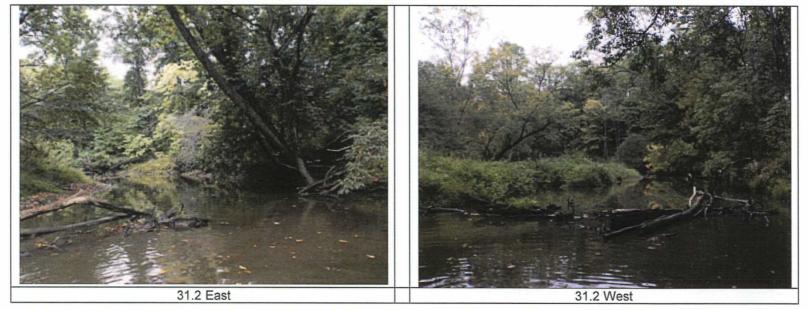
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APPENDIX A PHOTOGRAPHS OF MFLBC







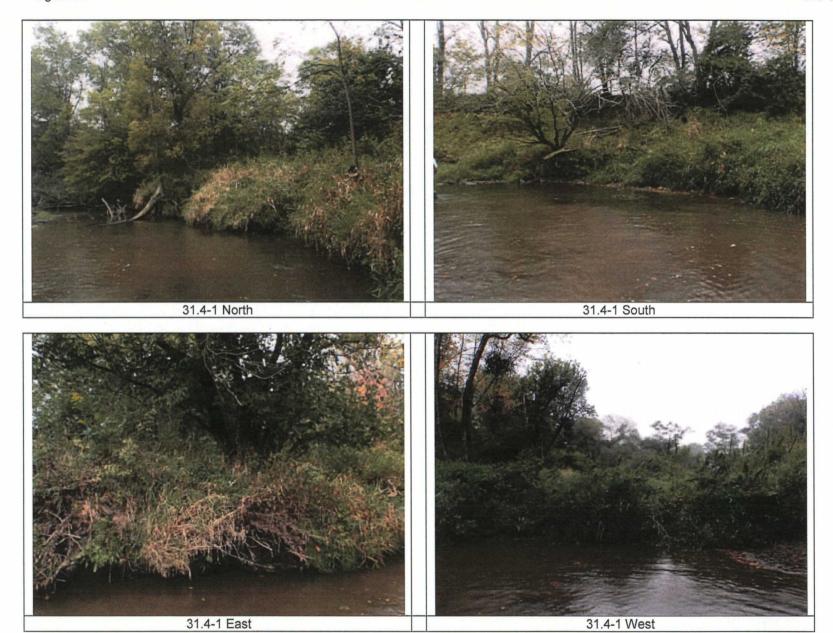




August 2011 3 933-6154

31.3-1 West

31.3-1 South



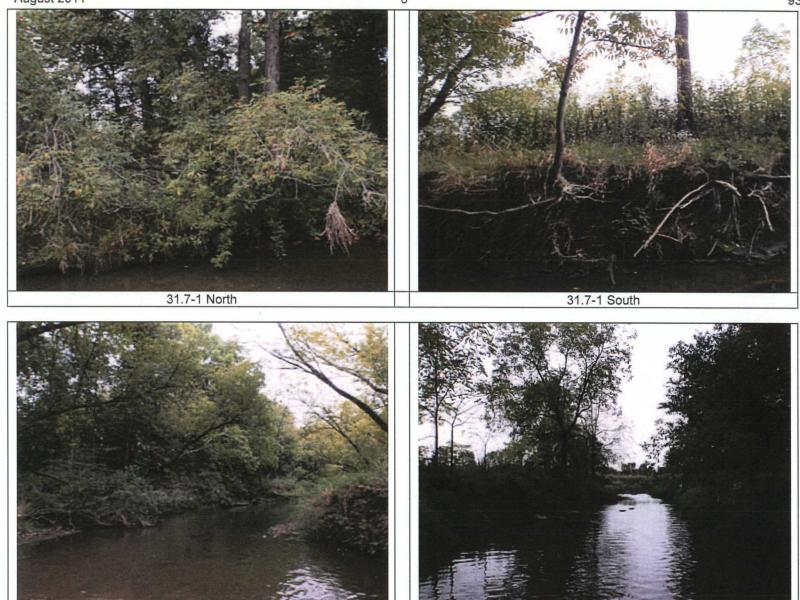


August 2011 5 933-6154





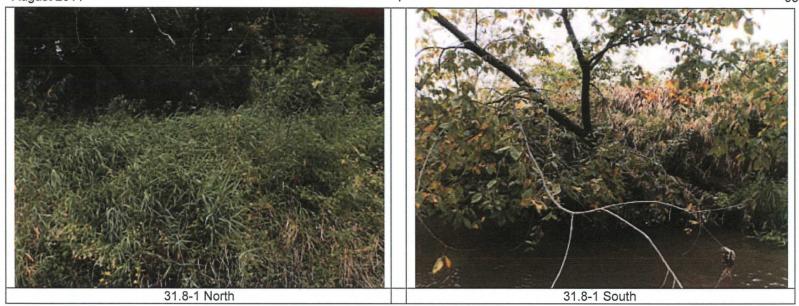






31.7-1 West

31.7-1 East











31.8-2 West

August 2011 9 933-6154







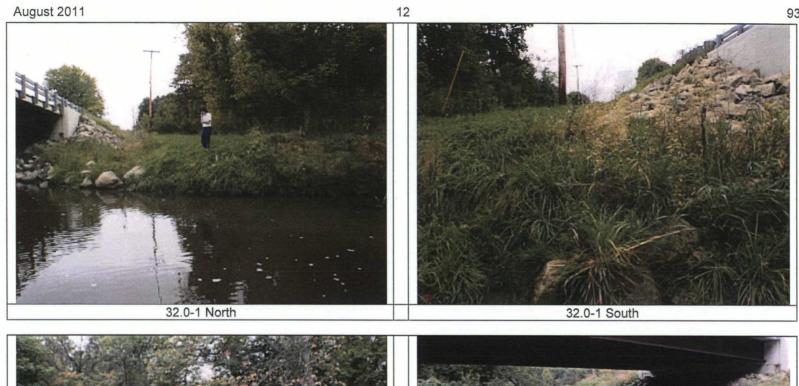




















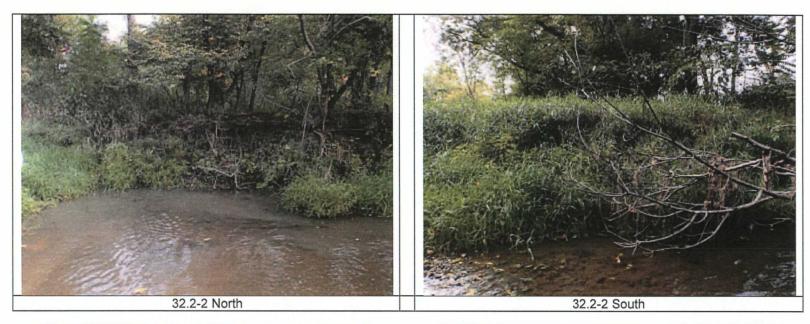


















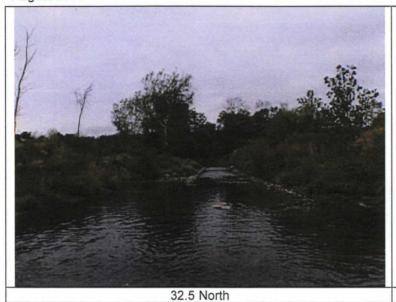








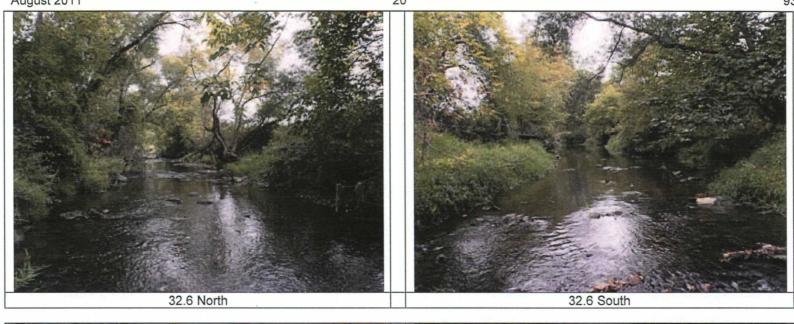






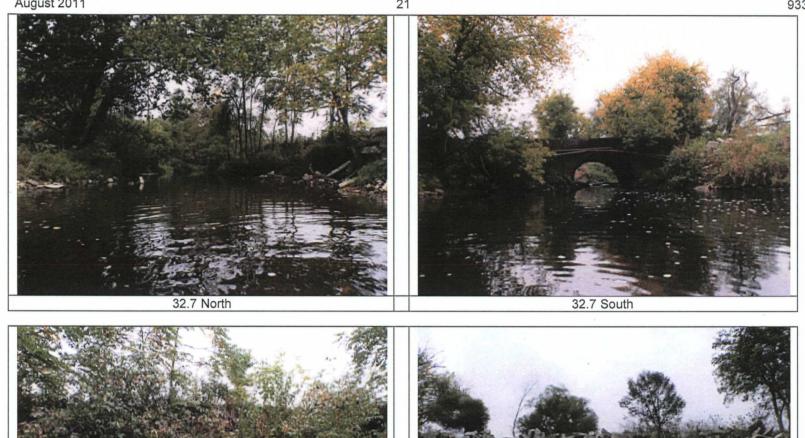


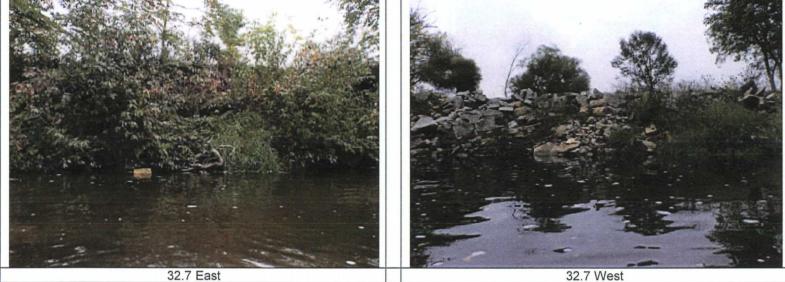




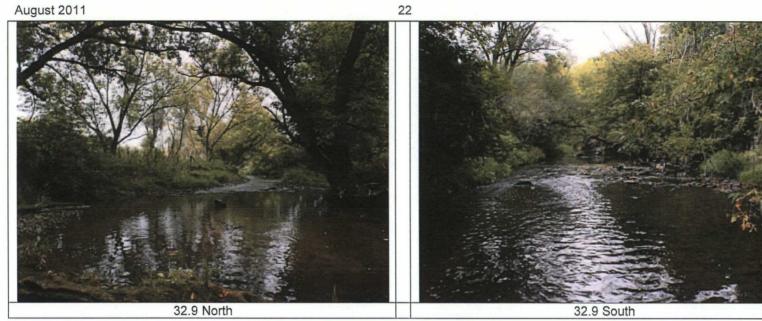














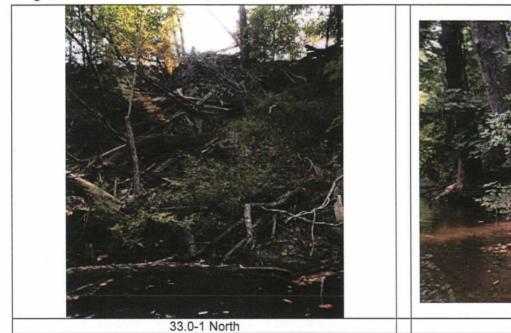






32.9-3 East

32.9-3 West





33.0-1 South



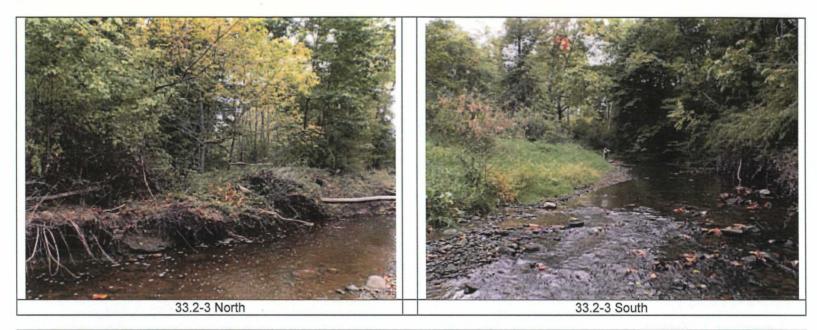






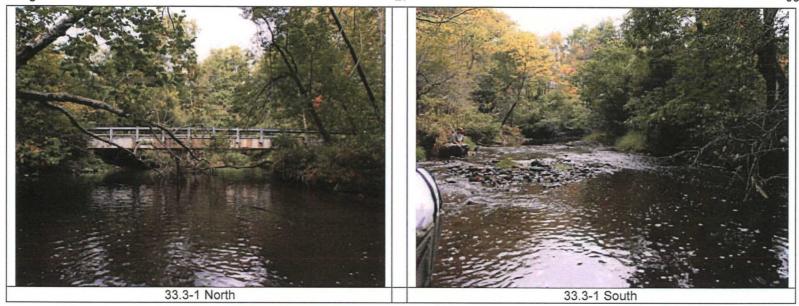






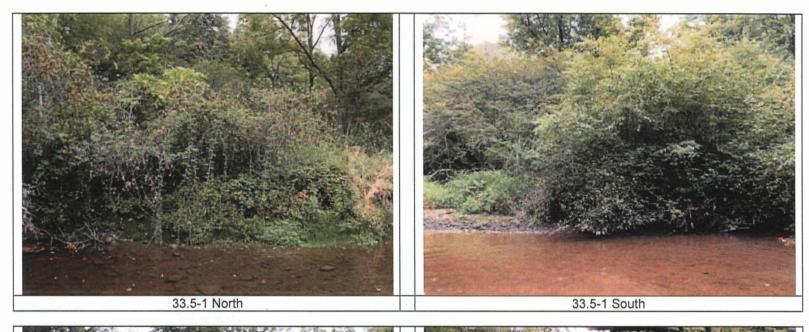






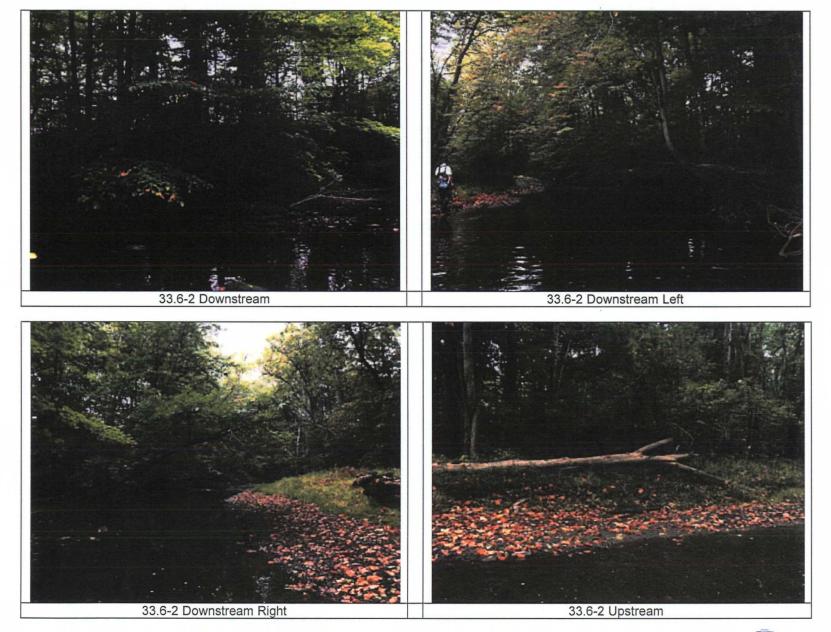




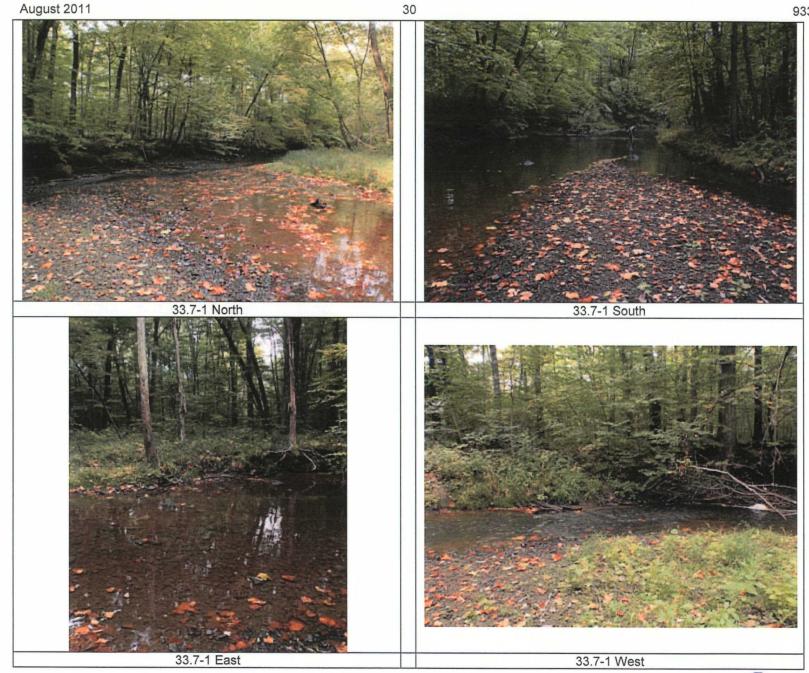
















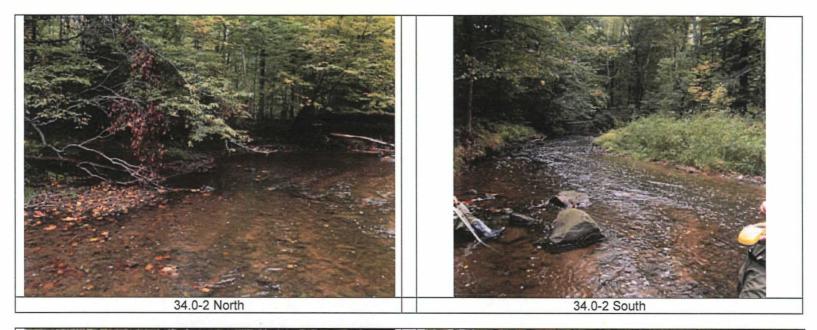












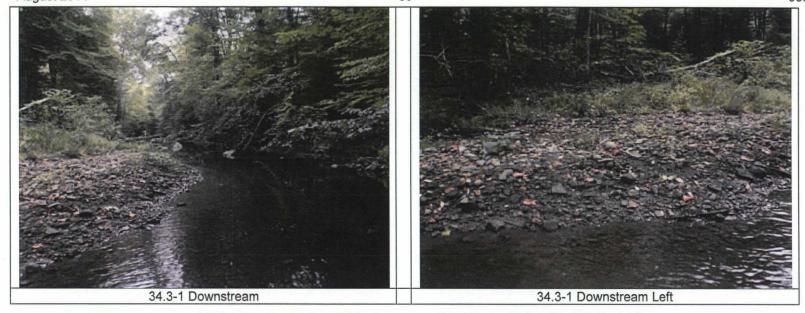


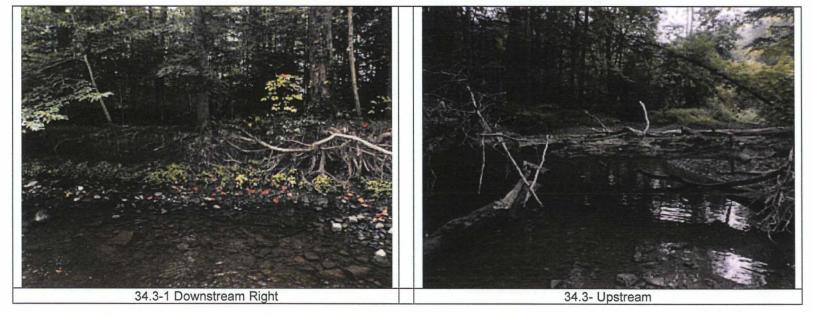




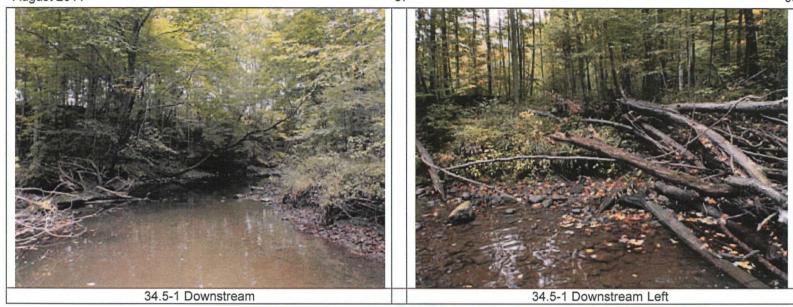


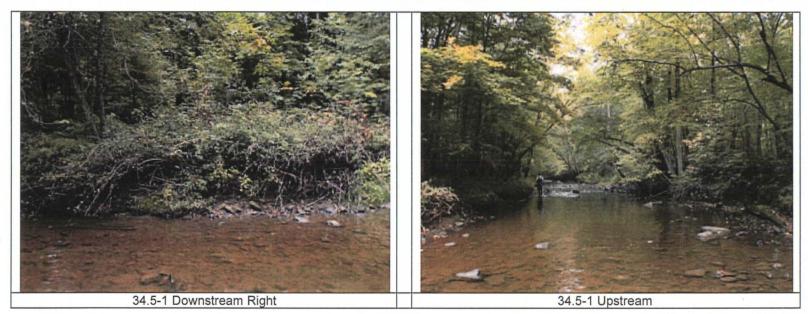




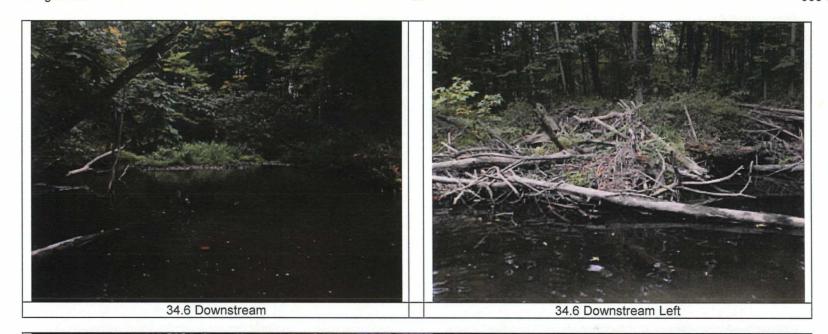


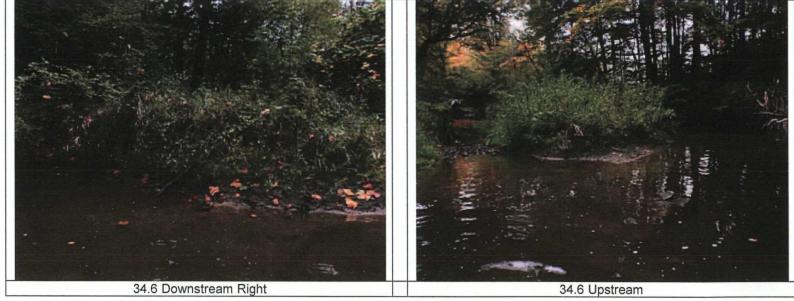












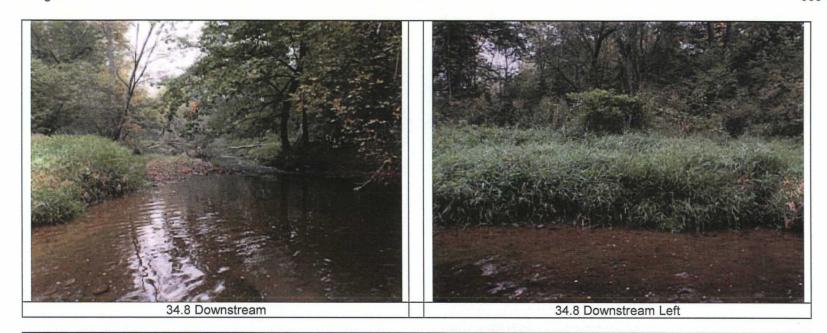


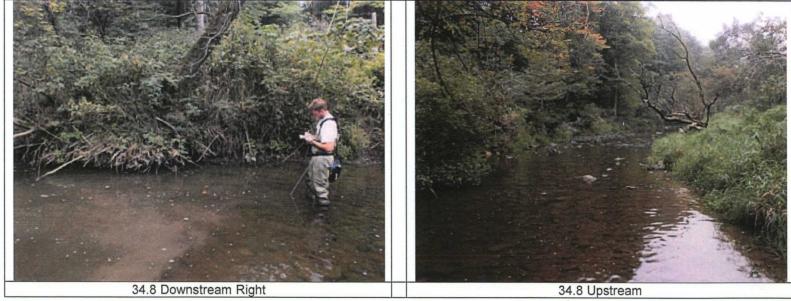




34.7 Upstream

34.7 Downstream Right











34.9 Upstream

34.9 Downstream Right





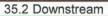












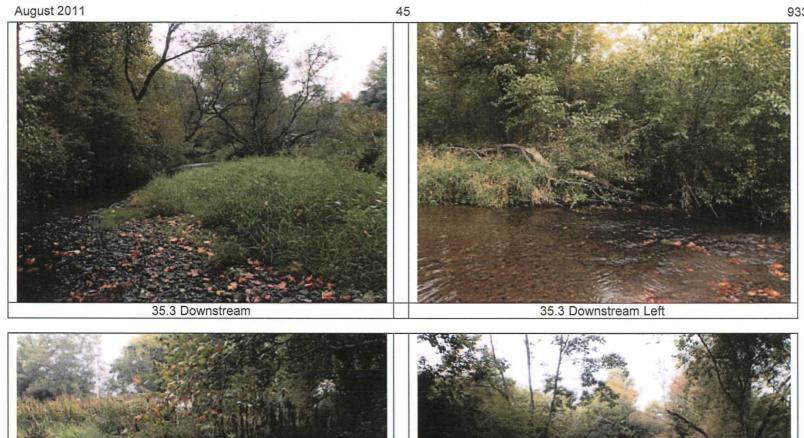
35.2 Downstream Left





35.2 Upstream











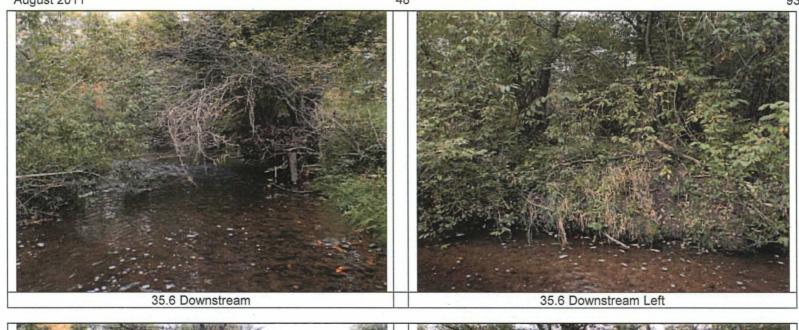






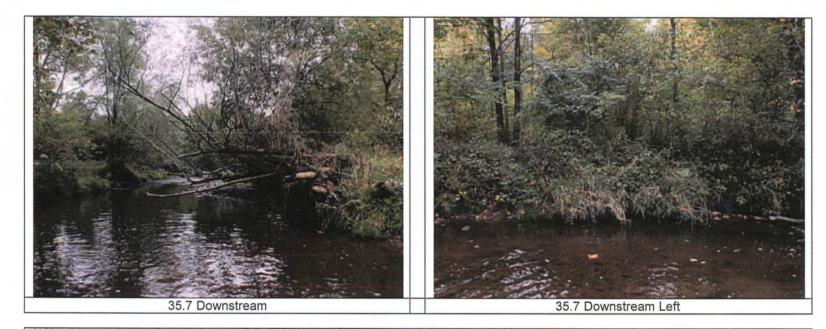
35.5 Upstream

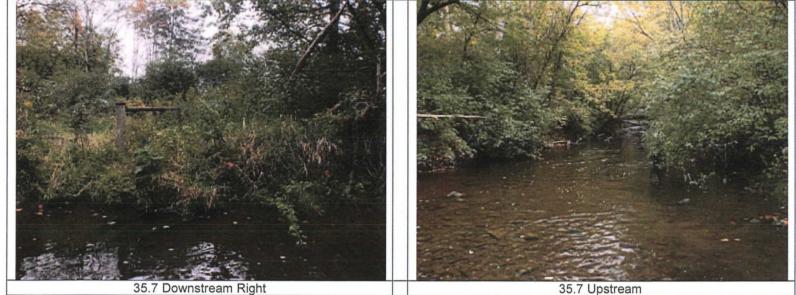
35.5 Downstream Right



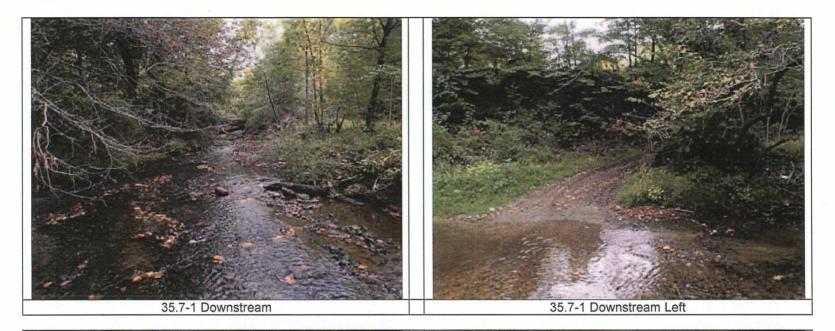


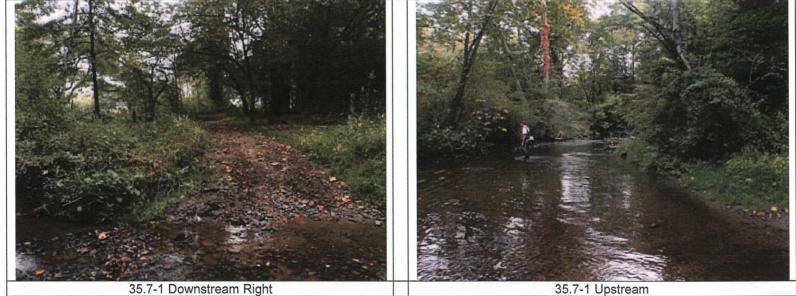




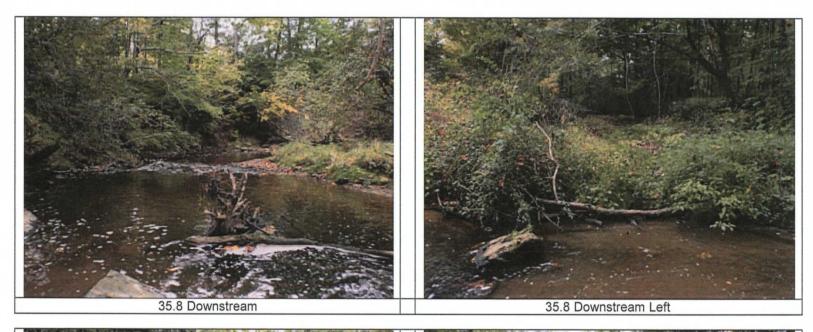


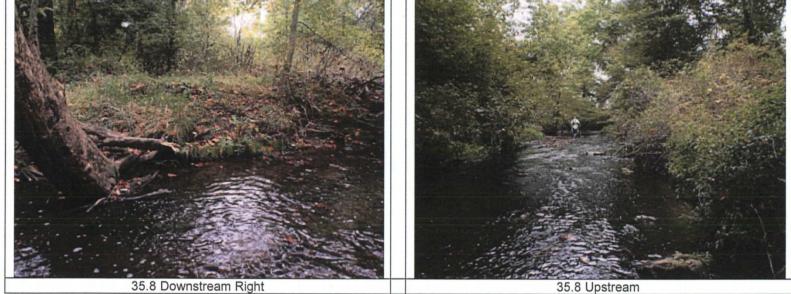








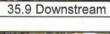












35.9 Downstream Left



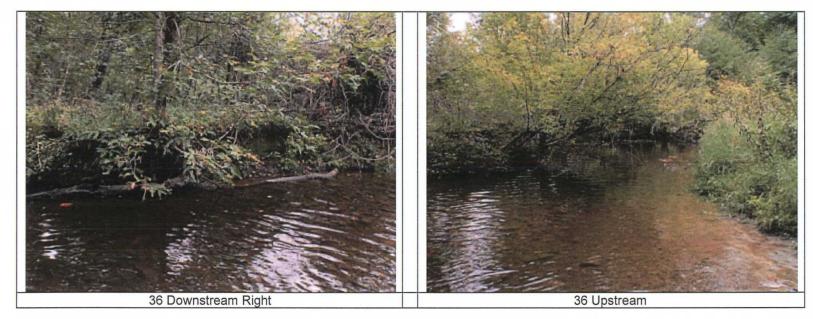


35.9 Downstream Right

35.9 Upstream

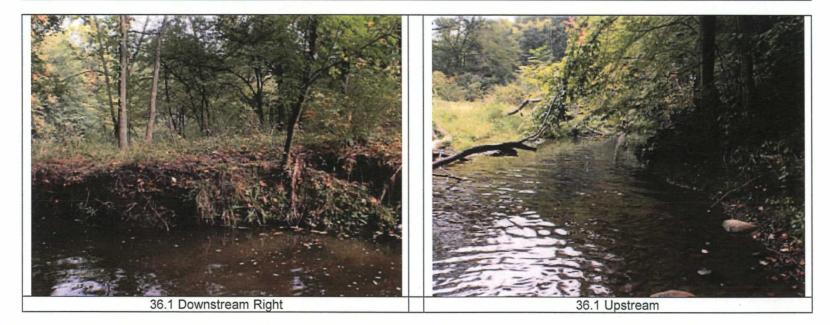




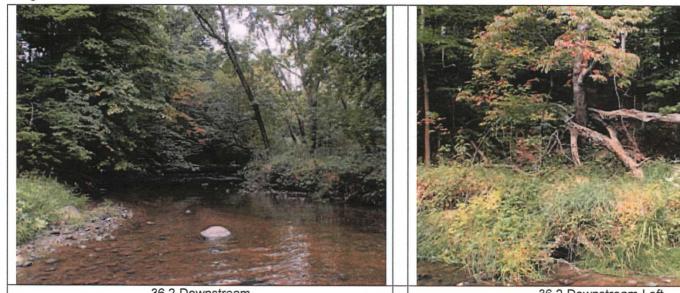




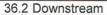








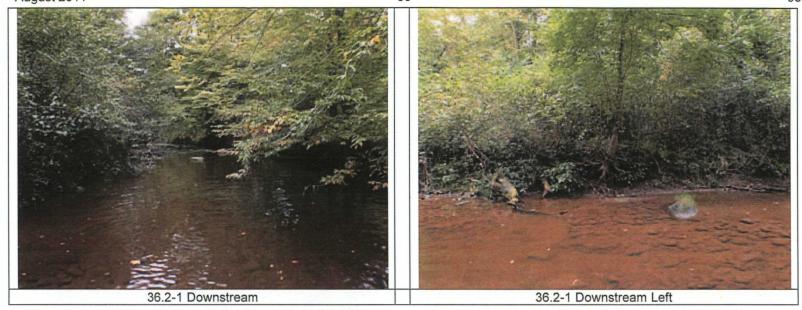


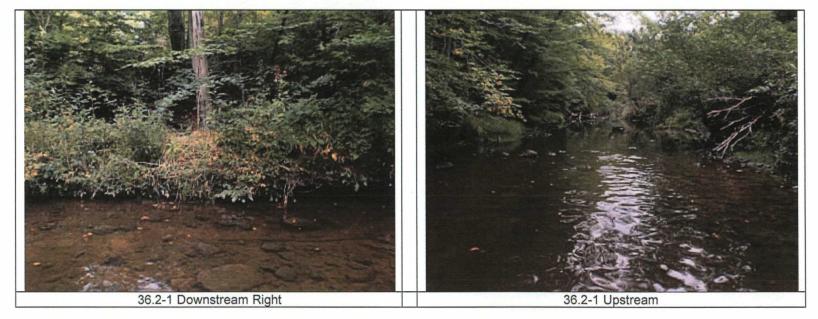


36.2 Downstream Left









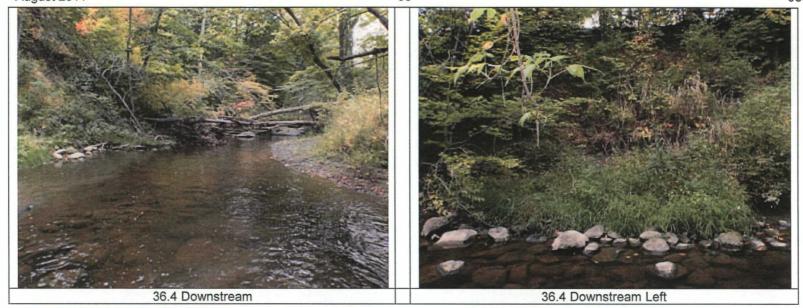






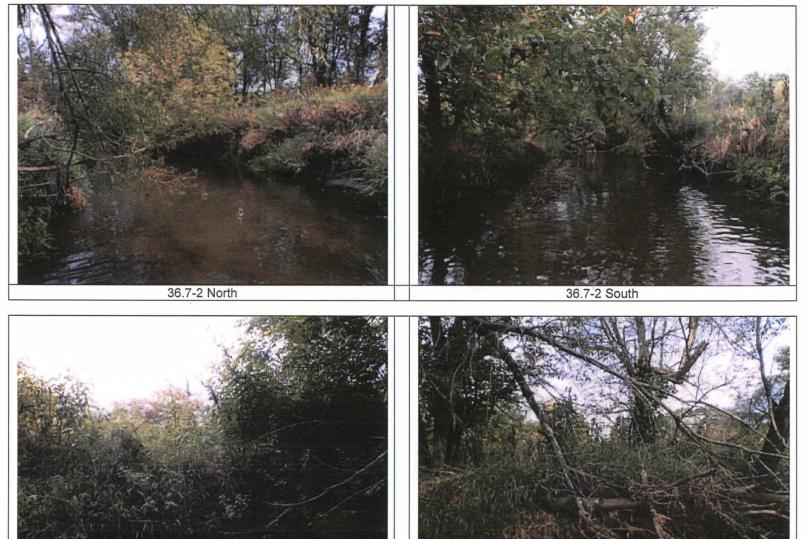
36.3 Upstream

36.3 Downstream Right





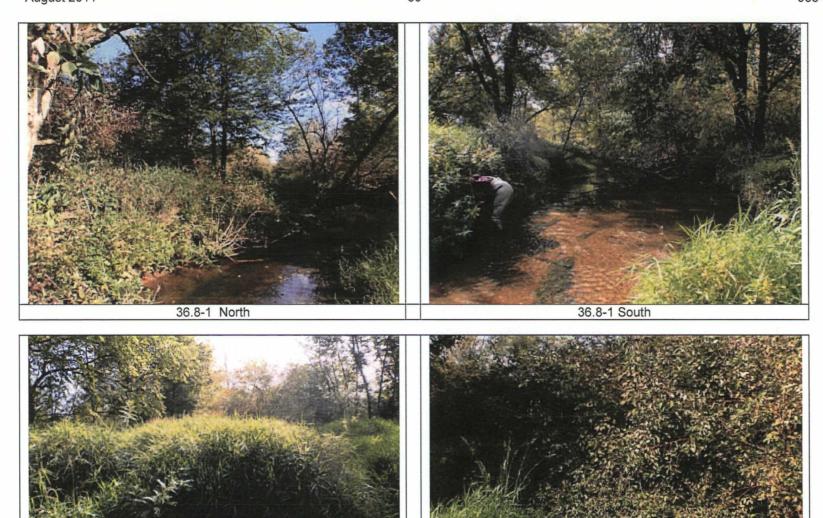






36.7-2 West

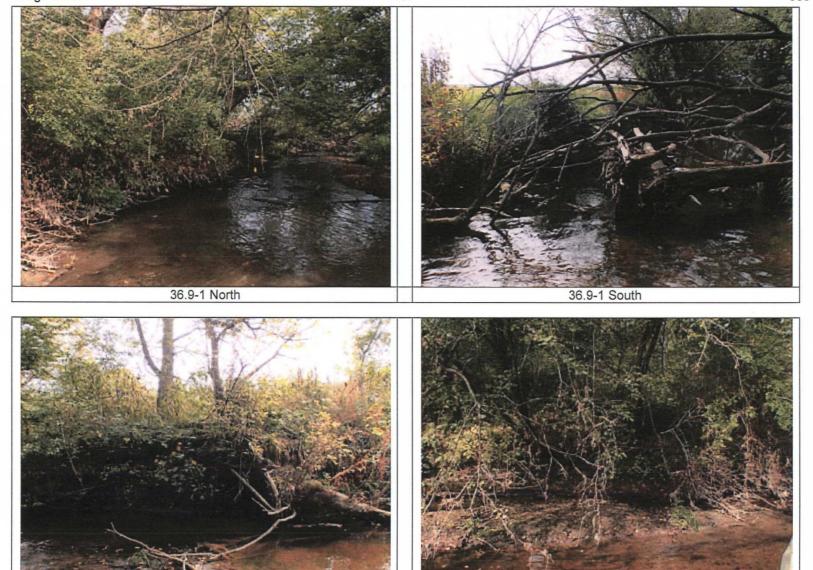
36.7-2 East





36.8-1 West

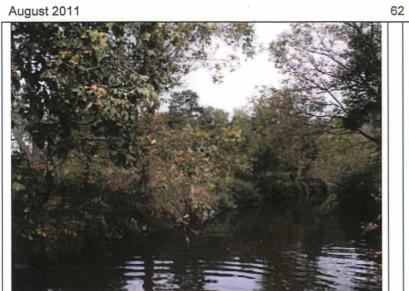
36.8-1 East





36.9-1 West

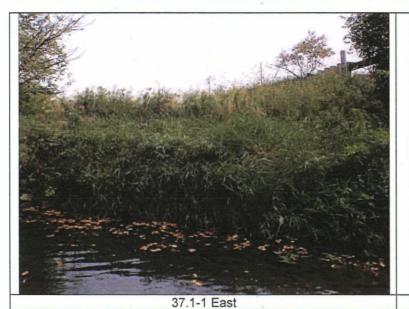
36.9-1 East

















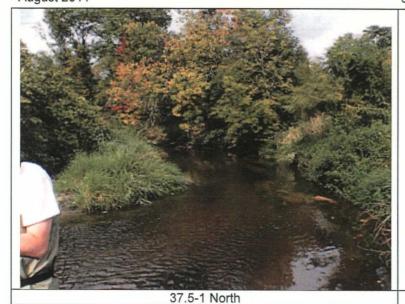




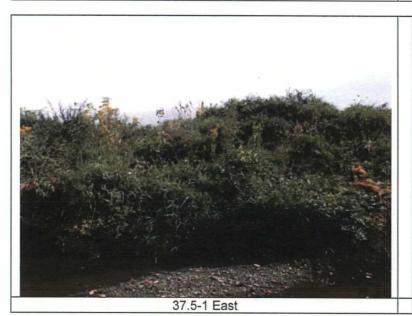










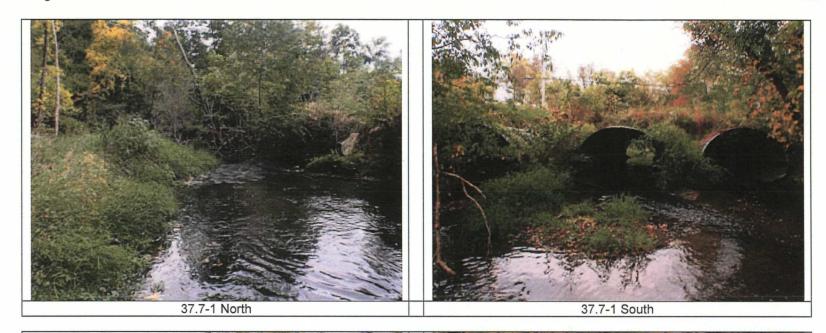




Golder





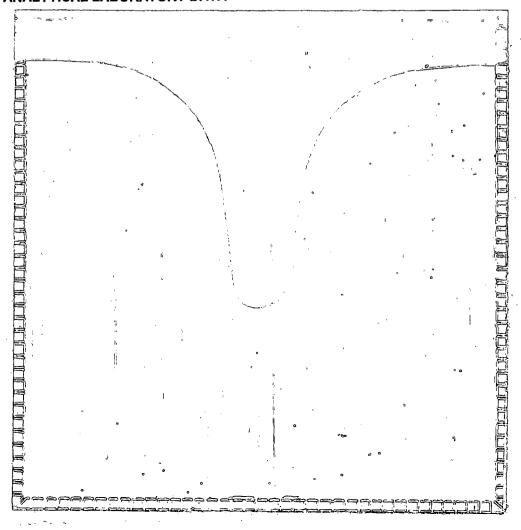






APPENDIX B

ANALYTICAL LABORATORY DATA



Client Sample ID: SD10-31.7L-0-4

GC Semivolatiles

| Lot-Sample #: A0I130456-001 | Work Order #: | L6WGD1AE | Matrix SO |
|------------------------------|-----------------------------|-------------|----------------------|
| Date Sampled: 09/08/10 16:30 | Date Received: | 09/10/10 | |
| Prep Date: 09/17/10 | Analysis Date: | 09/24/10 | |
| Prep Batch #: 0260032 | | | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.02 g | Final Wgt/Vol: 10 mL |
| % Moisture: 40 | Method: | SW846 8081B | . 1 |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 80 J | 55 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | • |
| Tetrachloro-m-xylene | 72 DIL | (31 - 131) | |
| Decachlorobiphenyl | 72 DIL | (18 - 145) | • |
| | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: SD10-31.1R-0-2

GC Semivolatiles

| Lot-Sample #: A0I130 | 0456-002 Work O | rder #: L6WGN1 | AE Matri | x SO |
|----------------------|-------------------|------------------|-----------------|----------------|
| Date Sampled: 09/08, | /10 12:15 Date Re | eceived: 09/10/ | /10 | |
| Prep Date: 09/17 | /10 Analys: | is Date: 09/24/ | /10 | |
| Prep Batch #: 026003 | 32 | | | |
| Dilution Factor: 10 | Initia | l Wgt/Vol: 29.95 | g Final | Wgt/Vol: 10 mL |
| % Moisture: 41 | Method: | SW846 | 8081B | |
| | | | | |
| | | REPORT | TING | |
| PARAMETER | RESULT | LIMIT | UNITS | |
| Mirex | 86 J | 56 | ug/kg | |
| | PERCENT | T RECOVE | ERY | |
| SURROGATE | RECOVE | RY LIMITS | 3 | |
| Tetrachloro-m-xylene | 88 DIL | (31 - | 131) | |
| Decachlorobiphenyl | 99 DIL | (18 - | 145) | |
| | | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

NOTE(S):

Client Sample ID: SD10-31.4R-0-6

GC Semivolatiles

| Lot-Sample #: | A0I130456-003 | Work Order #: | L6WGQ1AE | Matrix SO |
|-------------------|----------------|-----------------------------|------------|----------------------|
| Date Sampled: | 09/08/10 15:20 | Date Received: | 09/10/10 | |
| Prep Date: | 09/17/10 | Analysis Date: | 09/21/10 | |
| Prep Batch #: | 0260032 | | | |
| Dilution Factor: | 100 | <pre>Initial Wgt/Vol:</pre> | 30.2 g | Final Wgt/Vol: 10 mL |
| % Moisture: | 31 | Method: | SW846 8081 | В |
| | | | | |
| | | | REPORTING | |
| PARAMETER | | RESULT | LIMIT | UNITS |
| Mirex | | 600 J | 480 | ug/kg |
| | | PERCENT | RECOVERY | |
| SURROGATE | | RECOVERY | LIMITS | |
| Tetrachloro-m-xyl | Lene | 121 DIL | (31 - 131) | |
| Decachlorobipheny | 71 | 120 DIL | (18 - 145) | |
| | | | | |

NOTE (S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-31.2L-0-4

GC Semivolatiles

| Lot-Sample #: A0I130456-004 | Work Order #: | L6WGR1AE | Matrix SO |
|------------------------------|-----------------------------|-------------------------|----------------------|
| Date Sampled: 09/08/10 13:10 | Date Received: | 09/10/10 | |
| Prep Date: 09/17/10 | Analysis Date: | 09/27/10 | |
| Prep Batch #: 0260032 | | | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30 g | Final Wgt/Vol: 10 mL |
| % Moisture: 60 | Method: | SW846 8081 | 3 |
| • | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 190 J | 82 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 85 DIL | $\overline{(31 - 131)}$ | |
| Decachlorobiphenyl | 93 DIL | (18 - 145) | |
| | | | |
| NOTE (S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-31.8-0-4

GC Semivolatiles

| Lot-Sample #: A0 | I130456-005 W | ork Order # | : L6WGT1AE | Matrix | | SO |
|----------------------|----------------|-----------------|--------------|--------|----------|-------|
| Date Sampled: 09 | /08/10 17:25 D | ate Received | : 09/10/10 | | | |
| Prep Date: 09 |)/17/10 A | nalysis Date | : 09/24/10 | | | |
| Prep Batch #: 02 | 60032 | | | | | - |
| Dilution Factor: 5 | I | nitial Wgt/Vol: | : 30.08 g | Final | Wgt/Vol: | 10 mL |
| % Moisture: 44 | M | lethod | : SW846 8081 | В | | ٠ |
| | | | | | | |
| | | | REPORTING | | | |
| PARAMETER | R | ESULT | LIMIT | UNITS | | |
| Mirex | 3 | 4 J | 30 | ug/kg | | |
| | | | | | | |
| | P | ERCENT | RECOVERY | | | |
| SURROGATE | R | ECOVERY | LIMITS | | | |
| Tetrachloro-m-xylene | e 7 | 9 DIL | (31 - 131) | | | |
| Decachlorobiphenyl | 9 | 0 DIL | (18 - 145) | | | |
| | | | | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: SD10-31.3R-0-6

GC Semivolatiles

| Lot-Sample #: A0I130456-006 | Work Order #: | L6WGV1AE | Matrix SO |
|------------------------------|-----------------------------|------------|----------------------|
| Date Sampled: 09/08/10 14:15 | Date Received: | 09/10/10 | |
| Prep Date: 09/17/10 | Analysis Date: | 09/27/10 | |
| Prep Batch #: 0260032 | | | |
| Dilution Factor: 2 | <pre>Initial Wgt/Vol:</pre> | 30.18 g | Final Wgt/Vol: 10 mL |
| % Moisture: 48 | Method: | SW846 8081 | 3 |
| | | | |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 26 J | 13 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| | | | |
| Tetrachloro-m-xylene | 78 | (31 - 131) | |
| Decachlorobiphenyl | 86 | (18 - 145) | |

Results and reporting limits have been adjusted for dry weight.

NOTE(S):

Client Sample ID: SD10-32.0-0-6

GC Semivolatiles

| Lot-Sample #: | A0I130456-007 | Work Order #: | L6WGX1AE | Matrix SO |
|-------------------|----------------|-----------------------------|--------------------|----------------------|
| Date Sampled: | 09/08/10 19:00 | Date Received: | 09/10/10 | |
| Prep Date: | 09/17/10 | Analysis Date: | 09/27/10 | |
| Prep Batch #: | 0260032 | | | |
| Dilution Factor: | 10 | <pre>Initial Wgt/Vol:</pre> | 30.17 g | Final Wgt/Vol: 10 mL |
| % Moisture: | 53 | Method: | SW846 8081 | В |
| PARAMETER | | RESULT | REPORTING LIMIT | UNITS |
| Mirex | | 110 J | 70 | ug/kg |
| SURROGATE | | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xyl | Lene | 81 DIL | (31 - 131) | |
| Decachlorobipheny | 71 | 96 DIL | (18 - 145) | |
| | | | | |

NOTE(S):

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: SD10-32.1R-0-1

GC Semivolatiles

| Lot-Sample #: A0I130456-008 | | | Matrix SO |
|-----------------------------|-----------------------------|------------|----------------------|
| Date Sampled: 09/09/10 09:0 | <pre>0 Date Received:</pre> | 09/10/10 | • |
| Prep Date: 09/17/10 | Analysis Date: | 09/24/10 | |
| Prep Batch #: 0260032 | | | |
| Dilution Factor: 5 | Initial Wgt/Vol: | 30.06 g | Final Wgt/Vol: 10 mL |
| % Moisture: 61 | Method: | SW846 8081 | 3 |
| | | | |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 77 5 | 42 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 68 DIL | (31 - 131) | |
| Decachlorobiphenyl | 74 DIL | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

NOTE(S):

Client Sample ID: SD10-32.2L-0-1

GC Semivolatiles

| Lot-Sample #: | A0I130456-009 | Work | Order #: | L6WG31AE | Matri: | x | SO |
|-------------------|----------------|------|----------------|------------|--------|----------|-------|
| Date Sampled: | 09/09/10 09:50 | Date | Received: | 09/10/10 | | | |
| Prep Date: | 09/17/10 | Anal | ysis Date: | 09/27/10 | | | |
| Prep Batch #: | 0260032 | | | | | | |
| Dilution Factor: | 2 | Init | ial Wgt/Vol: | 30.06 g | Final | ₩gt/Vol: | 10 mL |
| % Moisture: | 57 | Meth | od: | SW846 8081 | В | | |
| | | | | | | | |
| | | | | REPORTING | | | |
| PARAMETER | | RESU | ULT | LIMIT | UNITS | | |
| Mirex | | 37 | J | 15 | ug/kg | | |
| | | | N to the trans | | | | |
| | | PERC | | RECOVERY | | | |
| SURROGATE | <u>.</u> | RECC | VERY | LIMITS | | | |
| Tetrachloro-m-xyl | lene | 64 | | (31 - 131) | | | |
| Decachlorobipheny | γl | 78 | | (18 - 145) | | | |

NOTE(S):

Client Sample ID: SD10-32.3L-0-6

GC Semivolatiles

| Lot-Sample #: A01130456 | 6-010 Work Order #: | L6WG71AE | Matrix: SO |
|-------------------------|----------------------|-------------------------|----------------------|
| Date Sampled: 09/09/10 | 10:45 Date Received: | 09/10/10 | |
| Prep Date: 09/17/10 | Analysis Date: | 09/24/10 | |
| Prep Batch #: 0260032 | | | |
| Dilution Factor: 5 | Initial Wgt/Vol: | 30.19 g | Final Wgt/Vol: 10 mL |
| % Moisture: 53 | Method: | SW846 8081 | В |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 56 J | 35 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 75 DIL | $\overline{(31 - 131)}$ | |
| Decachlorobiphenyl | 85 DIL | (18 - 145) | |
| NOTE (S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: SD10-33.0R-0-2

GC Semivolatiles

| Lot-Sample #: A0I130 | 456-011 Work Orde | r #: L6WHA1AE | Matri: | x SO |
|---------------------------|--------------------|-------------------------|--------|----------------|
| Date Sampled: 09/09/ | 10 13:50 Date Rece | ived: 09/10/10 |) | 4 |
| Prep Date: 09/17/ | 10 Analysis | Date: 09/24/10 |) | |
| Prep Batch #: 026003 | 2 | | | |
| Dilution Factor: 5 | Initial W | Igt/Vol: 30.17 g | Final | Wgt/Vol: 10 mL |
| % Moisture: 63 | Method | : SW846 80 |)81B | |
| | | REPORTIN | IG . | |
| PARAMETER | RESULT | LIMIT | UNITS | |
| Mirex | 57 J | 44 | ug/kg | |
| | PERCENT | RECOVERY | ? | |
| SURROGATE | RECOVERY | LIMITS | | |
| Tetrachloro-m-xylene | 80 DIL | (31 - 13 | 31) | |
| ${	t Decachlorobiphenyl}$ | 90 DIL | (18 - 14 | 15) | |
| | | | | |
| NOTE(S): | | | | _ |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-33.1L-0-4

GC Semivolatiles

| Lot-Sample #: A0I130456-012 | Work Order #: | L6WHD1AE | Matrix SO |
|------------------------------|-----------------------------|-------------------------|----------------------|
| Date Sampled: 09/09/10 14:40 | Date Received: | 09/10/10 | |
| Prep Date: 09/17/10 | Analysis Date: | 09/24/10 | |
| Prep Batch #: 0260032 | | | |
| Dilution Factor: 20 | <pre>Initial Wgt/Vol:</pre> | 29.99 g | Final Wgt/Vol: 10 mL |
| % Moisture: 54 | Method: | SW846 8081B | - - |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 170 J | 140 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 84 DIL | $\overline{(31 - 131)}$ | |
| Decachlorobiphenyl | 72 DIL | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

NOTE(S):

Client Sample ID: SD10-32.9R-0-3

GC Semivolatiles

| Lot-Sample #: | A0I130456-013 | Work Order #: | L6WHE1AD | Matrix SO |
|-------------------|----------------|-----------------------------|-------------------------|----------------------|
| Date Sampled: | 09/09/10 13:10 | Date Received: | 09/10/10 | |
| Prep Date: | 09/17/10 | Analysis Date: | 09/24/10 | |
| Prep Batch #: | 0260032 | | | |
| Dilution Factor: | 10 | <pre>Initial Wgt/Vol:</pre> | 30.05 g | Final Wgt/Vol: 10 mL |
| % Moisture: | 52 | Method: | SW846 8081 | В |
| | | | | |
| • | | | REPORTING | |
| PARAMETER | · | RESULT | LIMIT | UNITS |
| Mirex | | 110 丁 | 69 | ug/kg |
| | | PERCENT | RECOVERY | |
| SURROGATE | | RECOVERY | LIMITS | |
| Tetrachloro-m-xyl | ene | 81 DIL | $\overline{(31 - 131)}$ | |
| Decachlorobipheny | r1 | 76 DIL | (18 - 145) | |
| | | | | |

NOTE (S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-DUP-01

GC Semivolatiles

| Lot-Sample #: A0I130456-014 | | | Matrix SO |
|-----------------------------|------------------|-------------------------|----------------------|
| Date Sampled: 09/09/10 14:4 | O Date Received: | 09/10/10 | |
| Prep Date: 09/17/10 | Analysis Date: | 09/24/10 | |
| Prep Batch #: 0260032 | | | |
| Dilution Factor: 20 | Initial Wgt/Vol: | 30.11 g | Final Wgt/Vol: 10 mL |
| % Moisture: 56 | Method: | SW846 8081 | В |
| | | | |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 250 J | 150 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 94 DIL | $\overline{(31 - 131)}$ | |
| Decachlorobiphenyl | 96 DIL | (18 - 145) | |
| | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: SD10-31.7L-0-4

General Chemistry

Lot-Sample #...: A0I130456-001

Work Order #...: L6WGD

Matrix....: SO

Date Sampled...: 09/08/10 16:30 Date Received..: 09/10/10

% Moisture....: 40

| | | | | | PREPARATION- | PREP |
|----------------|--------|-------------|--------|-------------------|----------------|---------|
| PARAMETER | RESULT | RL_ | UNITS | METHOD | ANALYSIS DATE | BATCH # |
| Percent Solids | 60.0 | 10.0 | 8 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| | D: | ilution Fac | tor: 1 | | | |
| Total Organic | 13000 | 1700 | mg/kg | MSA WALKLEY-BLACE | 09/17/10 | 0260201 |

Carbon

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-31.1R-0-2

General Chemistry

Lot-Sample #...: A0I130456-002 **Work Order** #...: L6WGN **Matrix.....**: S0

Date Sampled...: 09/08/10 12:15 Date Received..: 09/10/10

% Moisture....: 41

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 58.9 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 15000 | 1700 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-31.4R-0-6

General Chemistry

Lot-Sample #...: A0I130456-003 Work Order #...: L6WGQ Matrix.....: SO

Date Sampled...: 09/08/10 15:20 Date Received..: 09/10/10

% Moisture....: 31

| PARAMETER | RESULT | <u>RL</u> | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 69.2 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 6300 | 1400 ution Facto | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-31.2L-0-4

General Chemistry

Lot-Sample #...: A0I130456-004

Work Order #...: L6WGR

Date Sampled...: 09/08/10 13:10 Date Received..: 09/10/10

% Moisture....: 60

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|---------------------|--------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 40.3 | 10.0 ilution Fac | % tor: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 10000 | 2500 | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-31.8-0-4

General Chemistry

Lot-Sample #...: A0I130456-005 Work Order #...: L6WGT Matrix.....: SO

Date Sampled...: 09/08/10 17:25 Date Received..: 09/10/10

% Moisture....: 44

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 55.8 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 14000 | 1800 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/17/10 | 0260201 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-31.3R-0-6

General Chemistry

Lot-Sample #...: A0I130456-006 Work Order #...: L6WGV Matrix.....: SO

Date Sampled...: 09/08/10 14:15 Date Received..: 09/10/10

% Moisture....: 48

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 52.4 Dil | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 4500 | 1900 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/17/10 | 0260201 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-32.0-0-6

General Chemistry

Lot-Sample #...: A0I130456-007

Work Order #...: L6WGX

Matrix....: SO

Date Sampled...: 09/08/10 19:00 Date Received..: 09/10/10

% Moisture....: 53

| PARAMETER | RESULT | RL . | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|---------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 47.0 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 20000 Dilu | 11000 | mg/kg | MSA WALKLEY-BLACK | 09/17/10 | 0260201 |
| | | | | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-32.1R-0-1

General Chemistry

Lot-Sample #...: A0I130456-008 Work Order #...: L6WG1 Matrix.....: S0

Date Sampled...: 09/09/10 09:00 Date Received..: 09/10/10

% Moisture....: 61

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 39.5 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 32000 | 2500 ution Facto | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| (-) | | | | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-32.2L-0-1

General Chemistry

Lot-Sample #...: A0I130456-009 Work Order #...: L6WG3

Date Sampled...: 09/09/10 09:50 Date Received..: 09/10/10

Matrix....: SO

% Moisture....: 57

| PARAMETER | RESULT | RL | <u>UNITS</u> | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # | | | |
|-------------------------|--------------------|------------|--------------|-------------------|-------------------------------|-----------------|--|--|--|
| Percent Solids | 42.9 | 10.0 | ¥ | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 | | | |
| | Dilution Factor: 1 | | | | | | | | |
| Total Organic Carbon | 26000 | 2300 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 | | | |
| | Dil | ution Fact | or: 1 | | | | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-32.3L-0-6

General Chemistry

Lot-Sample #...: A0I130456-010 Work Order #...: L6WG7 Matrix.....: S0

Date Sampled...: 09/09/10 10:45 Date Received..: 09/10/10

% Moisture....: 53

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|-------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 47.3 | 10.0 | ቼ or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| | DII | 1000 | J | | | |
| Total Organic Carbon | 23000 | 2100 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| | Dil | ution Facto | or: 1 | | | |
| | | | | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-33.0R-0-2

General Chemistry

Matrix....: SO

Lot-Sample #...: A0I130456-011 Work Order #...: L6WHA

Date Sampled...: 09/09/10 13:50 Date Received..: 09/10/10

% Moisture....: 63

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 37.3 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 20000 | 13000 | mg/kg | MSA WALKLEY-BLACK | 09/17/10 | 0260201 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-33.1L-0-4

General Chemistry

Matrix..... SO

Lot-Sample #...: A0I130456-012 Work Order #...: L6WHD

Date Sampled...: 09/09/10 14:40 Date Received..: 09/10/10

% Moisture....: 54

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 45.6 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 29000 | 2200 ution Facto | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| MOMEL(G) | | | | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-32.9R-0-3

General Chemistry

Matrix....: SO

Lot-Sample #...: A0I130456-013 Work Order #...: L6WHE

Date Sampled...: 09/09/10 13:10 Date Received..: 09/10/10

% Moisture....: 52

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 48.2 | 10.0 ution Facto | % or; 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 9600 | 2100 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-DUP-01

General Chemistry

Lot-Sample #...: A0I130456-014 Work Order #...: L6WHH Matrix.....: SO

Date Sampled...: 09/09/10 14:40 Date Received..: 09/10/10

% Moisture....: 56

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 43.9 Dil | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/13-09/14/10 | 0256335 |
| Total Organic Carbon | 29000 | 2300 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| -xomp (a) | | | | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-32.0C-0-3

General Chemistry

Matrix....: SO

Lot-Sample #...: A0I130456-015 Work Order #...: L6WHJ

Date Sampled...: 09/08/10 19:25 Date Received..: 09/10/10

% Moisture....: 25

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 74.7 | 10.0 ution Facto | ቴ or: 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279271 |
| Total Organic Carbon | 540 pt J | 1300 ution Facto | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

RL Reporting Limit

Client Sample ID: SD10-31.9C-0-4

General Chemistry

Lot-Sample #...: A0I130456-016 Work Order #...: L6WHL

er #...: L6WHL Matrix..... SO

Date Sampled...: 09/08/10 18:15 Date Received..: 09/10/10

% Moisture....: 24

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 76.0 | 10.0 ution Fact | % or: 1 | MCAWW 1.60.3 MOD | 10/06-10/07/10 | 0279271 |
| Total Organic Carbon | ND Dil | 1300 ution Fact | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |
| MOTE (C) | | | | | | |

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-32.9C-0-3

General Chemistry

Lot-Sample #...: A0I130456-017 Work Order #...: L6WHM Matrix.....: S0

Date Sampled...: 09/09/10 12:38 Date Received..: 09/10/10

% Moisture....: 31

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 69.3 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279271 |
| Total Organic Carbon | 2300 | 1400 ution Facto | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-31.7L-0-4

Lab Sample ID:

200-1515-1

Client Matrix:

Solid

Date Sampled: 09/08/2010 1630

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

Qualifier

D422_import

Preparation:

N/A

Lab File ID:

200-1515-B-1.txt

NONE

Dilution:

1.0

Initial Weight/Volume:

221.6 g

Date Analyzed:

09/15/2010 1959

Final Weight/Volume:

NONE

| Analyte | DryWt Corrected: N | Result (%) |
|-------------|--------------------|-------------|
| Gravel | ENGL. 2 | 0.1 |
| Sand | | 64.1 |
| Coarse Sand | | 0.2 |
| Medium Sand | | 3.6 |
| Fine Sand | | 60.3 |
| Silt | | 29.4 > 25.8 |
| Clav | | 6.4 |



Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-31.1R-0-2

Lab Sample ID:

200-1515-2

Client Matrix:

Solid

Date Sampled: 09/08/2010 1215

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1515-B-2.txt

Dilution:

Initial Weight/Volume:

142.9 g

Date Analyzed:

1.0

09/15/2010 2002

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|---------------------|-----------|--|--|
| Gravel | | 0.0 | | and the second of the second o | e i vinnesse i senti all'all'all'all'all'all'all'enter i vinne ne enter al enter i e i e e e e e e e e e e e e |
| Sand | | 64.1 | | | |
| Coarse Sand | | 0.6 | | | |
| Medium Sand | | 9.7 | | | |
| Fine Sand | | 53.8 | | | |
| Silt | | 28.2 259 | | | |
| Clay | | 28.2 7.7 35.9 | | | |



Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-31.4R-0-6

Lab Sample ID:

200-1515-3

09/15/2010 2026

Client Matrix:

Solid

Date Sampled: 09/08/2010 1520

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

NONE

Preparation:

Lab File ID:

200-1515-B-3.txt

Dilution:

N/A

Qualifier

1.0

Initial Weight/Volume: Final Weight/Volume:

NONE

174.61 g

Date Analyzed:

| Analyte | DryWt Corrected: N | Result (%) |
|-------------|--------------------|------------|
| Gravel | | 0.1 |
| Sand | | 61,2 |
| Coarse Sand | | 0.4 |
| Medium Sand | | 5.0 |
| Fine Sand | | 55.8 |
| Silt | | 34.1 28.7 |
| Clay | | 4.6 |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-31-2L-0-4

Lab Sample ID:

200-1515-4

Client Matrix:

Solid

Date Sampled: 09/08/2010 1310

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1515-B-4.txt

Dilution:

1.0

Initial Weight/Volume:

105,57 g

Date Analyzed:

09/15/2010 2029

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qua | NONE |
|-------------|--|------------|--------|------|
| Gravel | own room maken maken med angalam mengalam at a kada an alam sa aliku 19. dan da 3 dalah 11. ki 19. Pili ki 192 | 0.0 | | |
| Sand | | 69.2 | | |
| Coarse Sand | | 0.0 | | |
| Medium Sand | | 1.0 | | |
| Fine Sand | | 68.2 | , | |
| Silt | | 26.3 | 200 \$ | |
| Clay | | 4.5 | DU.0 | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-31.8-0-4

Lab Sample ID:

200-1515-5

Client Matrix:

Solid

Date Sampled: 09/08/2010 1725 Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1515-B-5.txt

Dilution:

Initial Weight/Volume:

162.58 g

Date Analyzed:

1.0

09/15/2010 2032

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|---|------|--|
| Gravel | | 0,0 | MAKAMI 179 ME COMMAND OF SECTION | | A CONTRACTOR OF THE CONTRACTOR CONTRACTOR OF THE |
| Sand | | 54.9 | | | |
| Coarse Sand | | 0.1 | | | |
| Medium Sand | | 2.4 | | | |
| Fine Sand | | 52.4 | | | |
| Silt | | 42.2 45.1 | | | |
| Clay | | 2.9 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-31.3-0-6

Lab Sample ID:

200-1515-6

Çlient Matrix:

Solid

Date Sampled: 09/08/2010 1415 Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File (D:

200-1515-B-6.txt

Dilution:

Initial Weight/Volume:

149.07 g

Date Analyzed:

1.0

09/15/2010 2035

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|------|
| Gravel | | 3,0 | | | |
| Sand | | 47.4 | | | |
| Coarse Sand | | 0.9 | | | |
| Medium Sand | | 3.9 | | | |
| Fine Sand | | 42.6 | | | |
| Silt | | 42.9 y9.6 | | | |
| Clay | | 6.7 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-32.0-0-6

Lab Sample ID:

200-1515-7

Client Matrix:

Solid

Date Sampled: 09/08/2010 1900

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1515-B-7.txt

NONE

Dilution:

121.82 g

1.0

Initial Weight/Volume:

Qualifier

09/15/2010 2037 Date Analyzed: Date Prepared:

Final Weight/Volume:

NONE

Analyte DryWt Corrected: N Result (%) Gravel 0.0 Sand

36.7 Coarse Sand 0.3

Medium Sand 1.6 Fine Sand 34.8 Silt

Clay

55.4 63.3 7.9

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-32.1R-0-1

Lab Sample ID:

200-1515-8

09/15/2010 2040

Client Matrix:

Solid

Date Sampled: 09/09/2010 0900

Date Received: 09/14/2010 1010

D422 Grain Size

5.0

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

200-1515-B-8.1xt

Lab File ID:

Dilution:

1.0

Initial Weight/Volume:

187.36 g

Date Analyzed:

Date Prepared:

Qualifier

Final Weight/Volume:

NONE

NONE

| Analyte | DryWt Corrected: N | Result (% |
|-------------|--------------------|-----------|
| Gravel | | 0.5 |
| Sand | | 34.5 |
| Coarse Sand | | 0.3 |
| Medium Sand | | 1,8 |
| Fine Sand | | 32.4 |
| Silt | | 57.3 {o |
| Clay | • | 7.7 |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A01130456

Client Sample ID:

SD10-32.2L-0-1

Lab Sample ID:

200-1515-9

Client Matrix:

Solid

Date Sampled: 09/09/2010 0950

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1515-B-9.txt

Dilution:

Initial Weight/Volume:

150.52 g

Date Analyzed:

1.0

09/15/2010 2046

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|--|
| Gravel | | 0,1 | | | A AND CLARESCENE SERVICE OF CONTROL SERVICE SE |
| Sand | | 22.5 | | | |
| Coarse Sand | | 0.2 | | | |
| Medium Sand | | 1.0 | | | |
| Fine Sand | | 21.3 | | | |
| Silt | | 67.5 77.4 | | | |
| Clay | | 9.9 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

\$D10-32.3L-0-6

Lab Sample ID:

200-1515-10

Client Matrix:

Solid

Date Sampled: 09/09/2010 1045

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1515-B-10.txt

Dilution:

1.0

Initial Weight/Volume:

137.44 g

Date Analyzed:

09/15/2010 2053

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--|------------|-----------|------|------|
| Gravel | STORY OF STORY WEST STORY OF STORY STORY STORY OF STORY S | 0.0 | | | |
| Sand | | 24.5 | | | |
| Coarse Sand | | 0.0 | | | |
| Medium Sand | | 1.1 | | | |
| Fine Sand | | 23.4 | | | |
| Silt | | 67.9 75.5 | | | |
| Clay | | 7.6 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-33.0R-0-2

Lab Sample ID:

200-1515-11

Client Matrix:

Solid

Date Sampled: 09/09/2010 1350

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1515-B-11,txt

Dilution:

1.0

Initial Weight/Volume:

197.1 g

Date Analyzed:

09/15/2010 2056

Final Weight/Volume:

Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|---|------------|-----------|------|-------|
| Gravel | *************************************** | 3,3 | | | 4-6-5 |
| Sand | | 33.8 | | | |
| Coarse Sand | | 9.6 | | | |
| Medium Sand | | 9.3 | | | |
| Fine Sand | | 14.9 | | | |
| Silt | | 57.4 62.9 | | | |
| Clay | | 5.5 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-33.1L-0-4

Lab Sample ID:

200-1515-12

Client Matrix:

Solid

Date Sampled: 09/09/2010 1440

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1515-A-12.txt

Dilution:

Initial Weight/Volume:

153.66 g

Date Analyzed:

1.0

09/15/2010 2059

Final Weight/Volume:

Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|------|
| Gravel | | 0.0 | | | 4 |
| Sand | | 33.7 | | | |
| Coarse Sand | | 0.4 | | | |
| Medium Sand | | 4.7 | | | |
| Fine Sand | | 28.6 | | | |
| Silt | | 58.5 GG. 3 | ı | | |
| Clay | | 7.8 | | | |



Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-32.9R-0-3

Lab Sample ID:

200-1515-13

09/15/2010 2101

Client Matrix:

Solid

Date Sampled: 09/09/2010 1310

Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

4.6

Instrument ID:

Qualifier

D422_import

Preparation:

N/A

Lab File ID:

200-1515-B-13.txt

NONE

Dilution:

Clay

1.0

Initial Weight/Volume: Final Weight/Volume:

NONE

158.02 g

Date Analyzed: Date Prepared:

Result (%) Analyte DryWt Corrected: N Gravel 5.6 Sand 38,7 Coarse Sand 0.7 6,2 Medium Sand 31.8 Fine Sand Silt 51.1 55.7

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1515-1

Sdg Number: A0I130456

Client Sample ID:

SD10-DUP-01

Lab Sample ID:

200-1515-14

Client Matrix:

Solid

Date Sampled: 09/09/2010 1440 Date Received: 09/14/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-6642

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1515-A-14.bt

Dilution:

Initial Weight/Volume:

183.05 g

Date Analyzed:

1.0

09/16/2010 1854

Final Weight/Volume:

Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--|------------|-----------|------|--|
| Gravel | and the second s | 0.4 | | | the common annual to the decision for the Maderia source of the second o |
| Sand | | 25.6 | | | |
| Coarse Sand | | 0.2 | | | |
| Medium Sand | | 3.8 | | | |
| Fine Sand | | 21.6 | | | |
| Silt | | 61.0 74.0 | | | |
| Clay | | 13.0 | | | |

Client Sample ID: SD10-33.2L-0-6

GC Semivolatiles

| Lot-Sample #: A0I150590-001 Date Sampled: 09/13/10 10:09 Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix: SO |
|--|-----------------------------|--------------------------|---------------------------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.02 g | Final Wgt/Vol: 10 mL |
| % Moisture: 44 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 59 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 101 DIL | (31 - 131) | |
| Decachlorobiphenyl | 104 DIL | (18 - 145) | |
| NOTE(S): | | | · · · · · · · · · · · · · · · · · · · |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: SD10-33.5-0-4

GC Semivolatiles

| Lot-Sample #: A0I150590-002 Date Sampled: 09/13/10 11:30 Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix SO |
|--|-----------------------------|------------|----------------------|
| Dilution Factor: 20 | <pre>Initial Wqt/Vol:</pre> | 30.03 g | Final Wqt/Vol: 10 mL |
| % Moisture: 46 | Method: | SW846 8081 | 3 |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 300 | 120 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 94 DIL | (31 - 131) | |
| Decachlorobiphenyl | 92 DIL | (18 - 145) | |
| | | | |

 $\label{eq:def:DIL} \textbf{DIL.} \textbf{ The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

NOTE(S):

Client Sample ID: SD10-33.6R-0-2

GC Semivolatiles

| Lot-Sample #: A0II50590-00 Date Sampled: 09/13/10 13: Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix SO |
|---|-----------------------------|---------------------|-----------------------|
| Dilution Factor: 20 | <pre>Initial Wgt/Vol:</pre> | 30.09 g | Final Wgt/Vol.: 10 mL |
| % Moisture: 47 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 560 | REPORTING LIMIT 120 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 110 DIL | (31 - 131) | • |
| Decachlorobiphenyl | 93 DIL | (18 - 145) | |
| | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: SD10-33.7R-0-3

GC Semivolatiles

| Lot-Sample #: A0I150590-004 | Work Order #: | L62JD1AE | Matrix SO |
|------------------------------|-----------------------------|-------------------------|----------------------|
| Date Sampled: 09/13/10 14:20 | Date Received: | 09/15/10 | |
| Prep Date: 09/17/10 | Analysis Date: | 09/24/10 | |
| Prep Batch #: 0260033 | | | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.09 g | Final Wgt/Vol: 10 mL |
| % Moisture: 47 | Method: | SW846 8081F | 3 |
| | • | | |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 160 J | 62 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 97 DIL | $\overline{(31 - 131)}$ | |
| Decachlorobiphenyl | 100 DIL | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-DUP2

GC Semivolatiles

| Lot-Sample #: A0I150590-00 Date Sampled: 09/13/10 14: Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix: SO |
|---|-----------------------------|---------------------|----------------------|
| Dilution Factor: 1 | <pre>Initial Wgt/Vol:</pre> | : 30.05 g | Final Wgt/Vol: 10 mL |
| % Moisture: 42 | Method | SW846 8081 | В |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 5.6 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 89 | (31 - 131) | |
| Decachlorobiphenyl | 105 | (18 - 145) | |
| | | | |

Client Sample ID: SD10-33.8R-0-3

GC Semivolatiles

| Lot-Sample #: A0I150590-006 Date Sampled: 09/13/10 15:30 Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix SO |
|--|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.11 g | Final Wgt/Vol: 10 mL |
| % Moisture: 60 | Method: | SW846 8081 | 3 |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 82 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 89 DIL | (31 - 131) | |
| Decachlorobiphenyl | 70 DIL | (18 - 145) | |
| NOTE(S): | | | |

 $\label{eq:def:DIL} \textbf{The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-33.9R-0-4

GC Semivolatiles

| Lot-Sample #: A0I150590-00 Date Sampled: 09/13/10 16: Prep Date: 09/17/10 Prep Batch #: 0260033 | | : 09/15/10 | Matrix SO |
|---|-----------------------------|--------------------|----------------------|
| Dilution Factor: 20 | <pre>Initial Wgt/Vol:</pre> | 30.02 g | Final Wgt/Vol: 10 mL |
| % Moisture: 56 | Method | SW846 8081 | - · |
| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
| Mirex | 260 | 150 | ug/kg |
| | PERCENT | RECOVERY | · |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 87 DIL | (31 - 131) | |
| Decachlorobiphenyl | 95 DIL | (18 - 145) | ÷ |
| NOTE (S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: SD10-34.4L-0-3

GC Semivolatiles

| Lot-Sample #: A0I150590-008 Date Sampled: 09/14/10 10:2 Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrixs0 |
|---|-----------------------------|------------|----------------------|
| Dilution Factor: 1 | <pre>Initial Wqt/Vol:</pre> | 30.02 g | Final Wqt/Vol: 10 mL |
| % Moisture: 49 | Method: | _ | 5. |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 16 | 6.5 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 67 | (31 - 131) | |
| Decachlorobiphenyl | 81 | (18 - 145) | |
| NOTE(S): | | | <u> </u> |

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-34.5R-0-7

GC Semivolatiles

| Lot-Sample #: A0I150590-009 Date Sampled: 09/14/10 10:55 Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix SO |
|--|-----------------------------|------------|----------------------|
| Dilution Factor: 1 | <pre>Initial Wqt/Vol:</pre> | 30.03 g | Final Wgt/Vol: 10 mL |
| % Moisture: 14 | Method: | _ | <u> </u> |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | ND | 3.8 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 70 | (31 - 131) | |
| Decachlorobiphenyl | 84 | (18 - 145) | |
| MOTE (C). | | | |

Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: SD10-34.6L-0-3

GC Semivolatiles

| Lot-Sample #: A0I150590-010 Date Sampled: 09/14/10 11:4 Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix: SO |
|---|------------------------------------|--|----------------------|
| Dilution Factor: 20 % Moisture: 48 | <pre>Initial Wgt/Vol: Method</pre> | _ | Final Wgt/Vol: 10 mL |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 130 | UNITS ug/kg |
| SURROGATE Tetrachloro-m-xylene Decachlorobiphenyl | PERCENT RECOVERY 101 DIL 84 DIL | RECOVERY LIMITS (31 - 131) (18 - 145) | |

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-34.8R-0-3

GC Semivolatiles

| Lot-Sample #: A0I150590-01 Date Sampled: 09/14/10 12: Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix SO |
|---|-----------------------------|---------------------|----------------------|
| Dilution Factor: 20 | <pre>Initial Wgt/Vol:</pre> | 30.04 g | Final Wgt/Vol: 10 mL |
| % Moisture: 53 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 180 | REPORTING LIMIT 140 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 87 DIL | (31 - 131) | |
| Decachlorobiphenyl | 97 DIL | (18 - 145) | |
| Norma (d) | | | |

 $\label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-34.9L-0-2

GC Semivolatiles

| Lot-Sample #: A0I150590-012 | Work Order #: | L62J41AE | Matrix: SO |
|------------------------------|-----------------------------|-------------------------|----------------------|
| Date Sampled: 09/14/10 13:30 | Date Received: | 09/15/10 | |
| Prep Date: 09/17/10 | Analysis Date: | 09/22/10 | |
| Prep Batch #: 0260033 | | | |
| Dilution Factor: 100 | <pre>Initial Wgt/Vol:</pre> | 30.1 g | Final Wgt/Vol: 10 mL |
| % Moisture: 39 | Method: | SW846 8081 | В |
| | · | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 830 | 540 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | • |
| Tetrachloro-m-xylene | 105 DIL | $\overline{(31 - 131)}$ | |
| | | | |
| Decachlorobiphenyl | 102 DIL | (18 - 145) | |
| ~ | | (18 - 145) | |

NOTE(S):

 $[\]label{eq:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: SD10-35.1R-0-2

GC Semivolatiles

| Lot-Sample #: A0I150590-013 Date Sampled: 09/14/10 14:10 Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix SO |
|--|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.07 g | Final Wgt/Vol: 10 mL |
| % Moisture: 54 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 71 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS _ | |
| Tetrachloro-m-xylene | 90 DIL | (31 - 131) | |
| Decachlorobiphenyl | 88 DIL | (18 - 145) | • |
| NOTE(S): | | | |

 $\label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: SD10-35.2L-0-1

GC Semivolatiles

| Lot-Sample #: A0I150590-014 Date Sampled: 09/14/10 14:56 | | | Matrix SO |
|--|-----------------------------|-------------|----------------------|
| Prep Date: 09/17/10 | Analysis Date: | , , - | |
| Prep Batch #: 0260033 | • | | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30 g | Final Wgt/Vol: 10 mL |
| % Moisture: 53 | Method: | SW846 8081E | 3 |
| | | | |
| | • | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 170 | 71 | ug/kg |
| | | | |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 69 DIL | (31 - 131) | |
| Decachlorobiphenyl | 84 DIL | (18 - 145) | |
| | | | |
| MONTH (a) | | | |

 $[\]label{eq:def:DIL} \textbf{DIL.} \textbf{The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-36.6L-0-2

GC Semivolatiles

| Lot-Sample #: A0I150590-015 Date Sampled: 09/14/10 18:25 Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix SO |
|--|-----------------------------|---------------------|----------------------|
| Dilution Factor: 20 | <pre>Initial Wgt/Vol:</pre> | 30.06 gr | Final Wgt/Vol: 10 mL |
| % Moisture: 49 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 540 | REPORTING LIMIT 130 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 104 DIL | (31 - 131) | |
| Decachlorobiphenyl | 100 DIL | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-33.8C-0-2

GC Semivolatiles

| Lot-Sample #: A0I150590-016 Date Sampled: 09/13/10 15:15 Prep Date: 09/17/10 Prep Batch #: 0260033 | == | 09/15/10 | Matrix SO |
|--|------------------|-------------|----------------------|
| Dilution Factor: 20 | Initial Wgt/Vol: | 30.03 g | Final Wgt/Vol: 10 mL |
| % Moisture: 23 | Method: | SW846 8081E | 3 |
| PARAMETER Mirex | RESULT | | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 106 DIL | (31 - 131) | |
| Decachlorobiphenyl | 111 DIL | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-35.4C-0-4

GC Semivolatiles

| Lot-Sample #: A0I150590-01 Date Sampled: 09/14/10 15: Prep Date: 09/17/10 Prep Batch #: 0260033 | | 09/15/10 | Matrix SO |
|--|-----------------------------|--------------------|----------------------|
| Dilution Factor: 100 | <pre>Initial Wgt/Vol:</pre> | 30.03 g | Final Wgt/Vol: 10 mL |
| % Moisture: 26 | Method: | SW846 80811 | В |
| PARAMETER | RESULT | REPORTING | UNITS |
| Mirex | 1100 | 450 | ug/kg |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 104 DIL | (31 - 131) | |
| Decachlorobiphenyl | 114 DIL | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: SD10-33.2L-0-6

General Chemistry

Lot-Sample #...: A01150590-001 Work Order #...: L62HE Matrix.....: S0

Date Sampled...: 09/13/10 10:05 Date Received..: 09/15/10

% Moisture....: 44

PARAMETER RESULT RL UNITS METHOD ANALYSIS DATE BATCH #
Percent Solids 56.4 10.0 % MCAWW 160.3 MOD 09/16-09/17/10 0259267

Dilution Factor: 1

Total Organic 11000 1800 mg/kg MSA WALKLEY-BLACK 09/22/10 0265142

Carbon

Dilution Factor: 1

NOTE (S):

RL Reporting Limit

Client Sample ID: SD10-33.5-0-4

General Chemistry

Lot-Sample #...: A0I150590-002 Work Order #...: L62H5 Matrix..... SO

Date Sampled...: 09/13/10 11:30 Date Received..: 09/15/10

% Moisture....: 46

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------------|---------------------|-------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 53.6 Di | 10.0 lution Fact | % tor: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | 18000 | 1900 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-33.6R-0-2

General Chemistry

Lot-Sample #...: A0I150590-003 Work Order #...: L62JA Matrix.....: S0

Date Sampled...: 09/13/10 13:15 Date Received..: 09/15/10

% Moisture....: 47

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 52.9 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | 15000 | 1900 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| | Dilı | ution Facto | or: 1 | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-33.7R-0-3

General Chemistry

Lot-Sample #...: A0I150590-004

Work Order #...: L62JD

Matrix..... SO

Date Sampled...: 09/13/10 14:20 Date Received..: 09/15/10

% Moisture....: 47

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|---------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 53.0 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | 21000 | 1900 ution Facto | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-DUP2

General Chemistry

Lot-Sample #...: A0I150590-005 Work Order #...: L62JG

Matrix..... SO

Date Sampled...: 09/13/10 14:20 Date Received..: 09/15/10

% Moisture....: 42

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|--------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 58.5 | 10.0 ution Fact | 용 or: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic | 16000 | 1700 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| Carbon | Dil | ution Fact | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-33.8R-0-3

General Chemistry

Lot-Sample #...: A0I150590-006 Work Order #...: L62JL

Matrix..... SO

Date Sampled...: 09/13/10 15:30 Date Received..: 09/15/10

% Moisture....: 60

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------------|---------------------|--------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 40.3 | 10.0 ilution Fac | % tor: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | - 11000 | 2500 ilution Fac | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| | | | | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-33.9R-0-4

General Chemistry

Lot-Sample #...: A0I150590-007

Work Order #...: L62JN

Matrix..... SO

Date Sampled...: 09/13/10 16:00 Date Received..: 09/15/10

% Moisture....: 56

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|-----------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 44.3 pil | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | 27000 | 2300 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-34.4L-0-3

General Chemistry

Lot-Sample #...: A0I150590-008

Work Order #...: L62JR

Matrix....: SO

Date Sampled...: 09/14/10 10:20 Date Received..: 09/15/10

% Moisture....: 49

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|--------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 50.8 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | 16000 | 2000 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| | Dil | ution Fact | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-34.5R-0-7

General Chemistry

Lot-Sample #...: A0I150590-009 **Work Order #...:** L62JW

Matrix..... SO

Date Sampled...: 09/14/10 10:55 Date Received..: 09/15/10

% Moisture....: 14

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|-------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 85.7 | 10.0 | % or: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic | 3000 | 1200 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| Carbon | Dil | lution Fact | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-34.6L-0-3

General Chemistry

Lot-Sample #...: A0I150590-010 Work Order #...: L62JX

Matrix....: SO

Date Sampled...: 09/14/10 11:40 Date Received..: 09/15/10

% Moisture....: 48

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 51.7 | 10.0 lution Fact | % tor: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | 17000 | 1900 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265142 |
| | Di | lution Fact | tor: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-34.8R-0-3

General Chemistry

Lot-Sample #...: A0I150590-011 Work Order #...: L62J2

1 Work Order #...: L62J2 Matrix.....: SO

Date Sampled...: 09/14/10 12:30 Date Received..: 09/15/10

% Moisture....: 53

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------------|--------------------|-------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 47.4 Di | 10.0 lution Fac | % tor: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | 24000 | 2100 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265144 |
| | Di | lution Fac | tor: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-34.9L-0-2

General Chemistry

Lot-Sample #...: A0I150590-012

Work Order #...: L62J4

Matrix..... SO

Date Sampled...: 09/14/10 13:30 Date Received..: 09/15/10

% Moisture....: 39

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|---------------------|-------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 60.6 | 10.0 lution Fact | % cor: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | 19000 | 1700 lution Fact | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265144 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-35.1R-0-2

General Chemistry

Lot-Sample #...: A0I150590-013 Work Order #...: L62J5

Matrix..... SO

Date Sampled...: 09/14/10 14:10 Date Received..: 09/15/10

% Moisture....: 54

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|--------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 46.3 Dil | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic Carbon | 23000 Dil | 2200 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265144 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-35.2L-0-1

General Chemistry

Lot-Sample #...: A0I150590-014

Work Order #...: L62J6

Matrix..... SO

Date Sampled...: 09/14/10 14:50 Date Received..: 09/15/10

% Moisture....: 53

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|---------------------|------------|-------------------|-------------------------------|--------------|
| Percent Solids | 46.5 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259267 |
| Total Organic | 23000 | 2100 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265144 |
| Carbon | Dilı | ution Facto | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-36.6L-0-2

General Chemistry

Lot-Sample #...: A0I150590-015 Work Order #...: L62J7

Matrix..... SO

Date Sampled...: 09/14/10 18:25 Date Received..: 09/15/10

% Moisture....: 49

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 50.8 | 10.0 Llution Fac | % tor: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259296 |
| Total Organic Carbon | 15000 | 2000 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265144 |
| | Dá | llution Fac | tor: 1 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-33.8C-0-2

General Chemistry

Lot-Sample #...: A0I150590-016

Work Order #...: L62J8

Matrix....: SO

Date Sampled...: 09/13/10 15:15 Date Received..: 09/15/10

% **Moisture....:** 23

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 76.5 | 10.0 | % or: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259296 |
| Total Organic Carbon | 2500 | 1300 | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265144 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: SD10-35.4C-0-4

General Chemistry

Lot-Sample #...: A0I150590-017

Work Order #...: L62J9

Matrix..... SO

Date Sampled...: 09/14/10 15:55 Date Received..: 09/15/10

% Moisture....: 26

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 73.9 | 10.0 Lution Fact | % cor: 1 | MCAWW 160.3 MOD | 09/16-09/17/10 | 0259296 |
| Total Organic Carbon | 3500 | 1400 lution Fact | mg/kg | MSA WALKLEY-BLACK | 09/22/10 | 0265144 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-33.2L-0-6

Lab Sample ID:

200-1566-1

Client Matrix:

Solid

Date Sampled: 09/13/2010 1005 Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-A-1.txt

Dilution:

Initial Weight/Volume:

120.58 g

Date Analyzed:

1.0

09/17/2010 1740

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|--------------------------|-----------|------|------|
| Gravel | | 0.0 | | W 1 | |
| Sand | | 50.2 | | | |
| Coarse Sand | | 0.5 | | | |
| Medium Sand | | 2.0 | | | |
| Fine Sand | | 47.7 | | | |
| Silt | | 45.0 4.8 4 49. | 4 | | |
| Clay | | 4.8 | | | |



Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-33.5-0-4

Lab Sample ID:

200-1566-2

Client Matrix:

Solid

Date Sampled: 09/13/2010 1130

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

200-1566-A-2,txt

N/A

Lab File ID:

Dilution:

1.0

Initial Weight/Volume:

117.78 g

Date Analyzed:

09/17/2010 1742

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|-----------------------|-----------|------|------|
| Gravel | | 4.3 | | | |
| Sand | | 57.2 | | | |
| Coarse Sand | | 1.5 | | | |
| Medium Sand | | 6.8 | | | |
| Fine Sand | | 48.9 | | | |
| Silt | | 30.0 ₃₈ .5 | | | |
| Clay | | 30.0 38.5 8.5 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-33.6R-0-2

Lab Sample ID:

200-1566-3

Client Matrix:

Solid

Date Sampled: 09/13/2010 1315

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-B-3.txt

Dilution:

Initial Weight/Volume:

101.43 g

Date Analyzed:

1.0

09/17/2010 1745

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|--|---|------|
| Gravel | | 0.0 | CONTROL CONTROL OF THE STATE OF | *************************************** | |
| Sand | | 55.6 | | | |
| Coarse Sand | | 0.0 | | | |
| Medium Sand | | 4.0 | | | |
| Fine Sand | | 51.6 | | | |
| Silt | | 37.1 44.4 | | | |
| Clay | | 7.3 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-33.7R-0-3

Lab Sample ID:

200-1566-4

Client Matrix:

Solid

Date Sampled: 09/13/2010 1420 Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-A-4.txt

Dilution:

1.0

Initial Weight/Volume:

90.34 g

Date Analyzed: Date Prepared:

09/17/2010 1747

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--|------------|--|--|------|
| Gravel | AL SON LOUIS CONTRACTOR OF THE | 0.3 | The second secon | V 3 *** V 1 *** T 1 *** V 1 ** | |
| Sand | | 46.7 | | | |
| Coarse Sand | | 0.4 | | | |
| Medium Sand | | 2.9 | | | |
| Fine Sand | | 43.4 | | | |
| Silt | | 47.6 53.0 | | | |
| Clay | | 5.4 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-DUP2

Lab Sample ID:

200-1566-5

Client Matrix:

Solid

Date Sampled: 09/13/2010 1420

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File (D:

200-1566-C-5.txt

Dilution:

1.0

Initial Weight/Volume:

97.09 g

Date Analyzed:

09/17/2010 1749

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|---|-------------|-----------|------|--|
| Gravel | A. Maria A. | 0.0 | | | COLUMN TO COMPANY CONTRACTOR CONT |
| Sand | | 47.2 | | | |
| Coarse Sand | | 1.0 | | | |
| Medium Sand | | 3.1 | | | |
| Fine Sand | | 43.1 | | | |
| Sift | | 44.7 528 | | | |
| Clay | | 8.1 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-33.8R-0-3

Lab Sample ID:

200-1566-6

Client Matrix:

Solid

Date Sampled: 09/13/2010 1530 Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-A-6.txt

Dilution:

Initial Weight/Volume:

109.35 g

Date Analyzed:

1.0

09/17/2010 1751

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|--|------|------|
| Gravel | | 0.0 | of the state of th | | |
| Sand | | 30.3 | | | |
| Coarse Sand | | 0.6 | 4 | | |
| Medium Sand | | 4.9 | | | |
| Fine Sand | | 24.8 | | | |
| Silt | | 59.3 G9.7 | | | |
| Clay | | 10.4 | | | |



Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-33.9R-0-4

Lab Sample ID:

200-1566-7

Client Matrix:

Solid

Date Sampled: 09/13/2010 1600 Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-B-7.txt

Dilution:

Initial Weight/Volume:

90.11 g

Date Analyzed:

1.0

09/17/2010 1753

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------------|-----------|------|------|
| Gravel | | 0.0 | | | |
| Sand | | 29.3 | | | |
| Coarse Sand | | 0.0 | | | |
| Medium Sand | | 0.5 | | | |
| Fine Sand | | 28.8 | | | |
| Silt | | 62.7 8.0 子の・オ | | | |
| Clay | | 8.0 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-34.4L-0-3

Lab Sample ID:

200-1566-8

Client Matrix:

Solid

Date Sampled: 09/14/2010 1020

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-A-8.txt

Initial Weight/Volume:

92.5 g

Dilution: Date Analyzed: 1.0

09/17/2010 1754

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------------|-----------|------|------|
| Gravel | | 0.0 | | | |
| Sand | | 52.0 | | | |
| Coarse Sand | | 0.9 | | | |
| Medium Sand | | 5,1 | | | |
| Fine Sand | | 46.0 | | | |
| Silt | | 42.4 48 O | | | |
| Clay | | 42.4 48.0 5.6 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-34.5R-0-7

Lab Sample ID:

200-1566-9

Client Matrix:

Solid

Date Sampled: 09/14/2010 1055

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

200-1566-B-9,txt

Dilution:

Lab File ID:

1.0

Initial Weight/Volume:

65.88 g

Date Analyzed: Date Prepared:

09/17/2010 1756

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|---|------------|-----------|---|------|
| Gravel | *************************************** | 15,5 | | *************************************** | |
| Sand | | 35,9 | | | |
| Coarse Sand | | 5.0 | | | |
| Medium Sand | | 8.7 | | | |
| Fine Sand | | 22.2 | | | |
| Silt | | 34.1 U8.6 | | | |
| Clay | | 14.5 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-34.6L-0-3

Lab Sample ID:

200-1566-10

Client Matrix:

Solid

Date Sampled: 09/14/2010 1140

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-A-10.txt

Dilution:

1.0

Initial Weight/Volume:

97.36 g

Date Analyzed:

09/17/2010 1757

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|-------------|---|---|--|
| Gravel | | 0.1 | A B CAMBO TO PROTECTION OF THE STATE OF THE | Commence and the Commence of Commence of the Commence of Commence | A STATE OF THE PROPERTY OF THE PROPERTY PROPERTY OF THE PROPER |
| Sand | | 53.5 | | | |
| Coarse Sand | | 0.3 | | | |
| Medium Sand | | 1.3 | | | |
| Fine Sand | | 51.9 \ | | | |
| Silt | | 40.6 Ub. 17 | | | |
| Clay | | 5.8 | | | |



Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-34.8R-0-3

Lab Sample ID:

200-1566-11

Client Matrix:

Solid

Date Sampled: 09/14/2010 1230

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-C-11.txt

Dilution:

Initial Weight/Volume:

107.1 g

Date Analyzed:

1.0 09/17/2010 1800

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|------|
| Gravel | | 0.0 | | | |
| Sand | | 30.8 | | | |
| Coarse Sand | | 0.0 | | | |
| Medium Sand | | 1.4 | | | |
| Fine Sand | | 29.4 | | | |
| Silt | | 56.4 gail | | | |
| Clay | | 12.8 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-34.9L-0-2

Lab Sample ID:

200-1566-12

Client Matrix:

Solid

Date Sampled: 09/14/2010 1330

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-B-12.txt

Dilution:

1.0

Initial Weight/Volume:

93.32 g

Date Analyzed:

09/17/2010 1814

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|------|
| Gravel | | 0.0 | | | |
| Sand | | 57.1 | | | |
| Coarse Sand | | 1.6 | | | |
| Medium Sand | | 5.5 | | | |
| Fine Sand | | 50.0 | | | |
| Şilt | | 33.8 | | | |
| Clay | | 9.1 | | | |
| • | | | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-35.1R-0-2

Lab Sample ID:

200-1566-13

09/17/2010 1816

Client Matrix:

Solid

Date Sampled: 09/14/2010 1410

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-A-13.txt

82.38 g

Dilution: Date Analyzed: 1.0

Initial Weight/Volume: Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|--|---------------------------------|------|
| Gravel | | 0,0 | AND DELENCE OF WHITE DAYS OF THE LEADING TOP | A.12 TOWN TO ASSESS WAS INCOME. | |
| Sand | | 45.4 | | | |
| Coarse Sand | | 0.0 | | | |
| Medium Sand | | 4.1 | | | |
| Fine Sand | | 41.3 | | | |
| Silt | | 43.4 54.6 | | | |
| Clay | | 11.2 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-35.2L-0-1

Lab Sample ID:

200-1566-14

Client Matrix:

Solid

09/17/2010 1818

Date Sampled: 09/14/2010 1450

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-B-14.txt

NONE

Dilution:

Date Analyzed:

1.0

Initial Weight/Volume: Final Weight/Volume:

97.83 g

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE |
|-------------|--------------------|-----------------------|-----------|------|
| Gravel | | 0.4 | | |
| Sand | | 45.9 | | |
| Coarse Sand | | 0,5 | | |
| Medium Sand | | 4,9 | | |
| Fine Sand | | 40.5 | | |
| Silt | | 45.1 65 ^{.^} | | |
| Clay | | 8.6 | | |



Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-36.6L-0-2

Lab Sample ID:

200-1566-15

Client Matrix:

Solid

Date Sampled: 09/14/2010 1825

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-A-15.txt

Dilution:

1.0

Initial Weight/Volume:

87.74 g

Date Analyzed:

09/17/2010 1820

Final Weight/Volume:

| Analyte | DryWl Corrected: N | Result (%) | | Qualifier | NONE | NONE |
|-------------|--|------------|-------|-----------|------|------|
| Gravel | The second secon | 0.0 | | | - C | |
| Sand | | 54.8 | | | | |
| Coarse Sand | | 0.0 | | | | |
| Medium Sand | | 4.8 | | | | |
| Fine Sand | | 50.0 | Λ | | | |
| Silit | | 36.1 | ur. V | | | |
| Clay | | 9.1 | -(· | | | |



Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-33.8C-0-2

Lab Sample ID:

200-1566-16

Client Matrix:

Solid

Date Sampled: 09/13/2010 1515

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

200-1566-B-16,txt

Dilution:

Lab File ID: Initial Weight/Volume:

134.93 g

Date Analyzed:

1.0

09/17/2010 1822

Final Weight/Volume:

NONE

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | |
|-------------|--|------------|-----------|------|--|
| Gravel | tere visit sek v | 0.3 | • IV (IV) | | |
| Sand | | 95.9 | | | |
| Coarse Sand | | 0.3 | | | |
| Medium Sand | | 11.8 | | | |
| Fine Sand | | 83.8 | | | |
| Silt | | 2.8 | | | |
| Clay | | 0.9 か゛ | | | |



Client: TestAmerica Laboratories, Inc.

Job Number: 200-1566-1

Sdg Number: A0I150590

Client Sample ID:

SD10-35.4C-0-4

Lab Sample ID:

200-1566-17

Client Matrix:

Solid

09/17/2010 1824

Date Sampled: 09/14/2010 1555

Date Received: 09/17/2010 1000

D422 Grain Size

Method:

D422

Analysis Batch: 200-6696

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1566-B-17.txt

188.3 g

Dilution:

1.0

Initial Weight/Volume:

Final Weight/Volume:

Date Analyzed: Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-------------|------|------|
| Gravel | | 1.8 | 200 10 2.40 | | |
| Sand | | 92.9 | | | |
| Coarse Sand | | 2.6 | | | |
| Medium Sand | | 21.2 | | | |
| Fine Sand | | 69.1 | | | |
| Silt | | 3.6 / 3 | | | |
| Clay | | 1.7 9·J | | | |

Client Sample ID: SD10-35.7R-0-2

GC Semivolatiles

| Lot-Sample #: A0I160575-001 Date Sampled: 09/15/10 09:1 Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix SO |
|---|-----------------------------|-------------|-----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.11 g | Final Wgt/Vol.: 10 mL |
| % Moisture: 48 | Method: | SW846 8081B | |
| PARAMETER Mirex | RESULT | | UNITS 1g/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 85 DIL | (31 - 131) | |
| Decachlorobiphenyl | 97 DIL | (18 - 145) | • |
| Tom: (a) | | | |

 $\textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes. \\$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-35.8R-0-1

GC Semivolatiles

| Lot-Sample #: A0I160575-00 Date Sampled: 09/15/10 09: Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix SO |
|---|-----------------------------|--------------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.1 g | Final Wgt/Vol: 10 mL |
| % Moisture: 45 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 210 | REPORTING LIMIT 61 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 85 DIL | (31 - 131) | |
| Decachlorobiphenyl | 95 DIL | (18 - 145) | |
| 770777 (7) | | | • |

 $\label{eq:def:DIL} \textbf{DIL.} \textbf{The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-35.9R-0-2

GC Semivolatiles

| Lot-Sample #: A0I160575-003 Date Sampled: 09/15/10 10:25 Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix SO |
|---|-----------------------------|-------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.14 g | Final Wgt/Vol: 10 mL |
| % Moisture: 61 | Method: | SW846 8081B | |
| PARAMETER Mirex | RESULT 130 | | NITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 78 DIL | (31 - 131) | |
| Decachlorobiphenyl | 90 DIL | (18 - 145) | |
| NOTE (S) : | | · | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-36.0L-0-2

GC Semivolatiles

| Lot-Sample #: A0I160575-004 Date Sampled: 09/15/10 11:0 Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix : SO |
|---|-----------------------------|------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.09 g | Final Wgt/Vol: 10 mL |
| % Moisture: 56 | Method | SW846 8081 | В |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 100 | 75 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 78 DIL | (31 - 131) | |
| Decachlorobiphenyl | 86 DIL | (18 - 145) | |
| NOTE(S): | | | |

D4L. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-36.1L-0-1

GC Semivolatiles

| Lot-Sample #: A0I160575-005 Date Sampled: 09/15/10 11:5 Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix SO |
|---|------------------|--------------------|----------------------|
| Dilution Factor: 5 | Initial Wgt/Vol: | 30.19 g | Final Wgt/Vol: 10 mL |
| % Moisture: 62 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 69 J | REPORTING LIMIT 44 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 50 DIL | (31 - 131) | |
| Decachlorobiphenyl | 77 DIL | (18 - 145) | |
| NOTE(S): | | | |

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-DUP3

GC Semivolatiles

| Lot-Sample #: A01160575-006 Date Sampled: 09/15/10 11:54 Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix: SO |
|--|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.04 g | Final Wgt/Vol: 10 mL |
| % Moisture: 62 | Method: | SW846 8081F | 3 |
| PARAMETER Mirex | RESULT 290 J | REPORTING LIMIT 87 | UNITS ug/kg |
| SURROGATE | PERCENT | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 46 DIL | (31 - 131) | |
| Decachlorobiphenyl | 72 DIL | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: SD10-36.2R-0-1

GC Semivolatiles

| Lot-Sample #: A0I160575- Date Sampled: 09/15/10 1 Prep Date: 09/21/10 Prep Batch #: 0264032 | | .: 09/16/10 | Matrix SO |
|---|----------------|----------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vo | ol: 30.17 g | Final Wgt/Vol: 10 mL |
| % Moisture: 47 | - • | .: SW846 8081B | 3 , |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 140 | 63 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 60 DIL | (31 - 131) | |
| Decachlorobiphenyl | 62 DIL | (18 - 145) | |
| MOTE (C) - | | | |

 $\label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-36.3L-0-1

GC Semivolatiles

| Lot-Sample #: A0I160575-008 Date Sampled: 09/15/10 13:2 Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix SO |
|---|------------------|--------------------|----------------------|
| Dilution Factor: 5 | Initial Wgt/Vol: | 30.2 g | Final Wgt/Vol: 10 mL |
| % Moisture: 58 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 65 | REPORTING LIMIT 39 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 47 DIL | (31 - 131) | |
| ${	t Decachlorobiphenyl}$ | 81 DIL | (18 - 145) | |
| | | | |

 $\label{eq:distance} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-36.4L-0-2

GC Semivolatiles

| Lot-Sample #: A0I160575-009 Date Sampled: 09/15/10 14:0 Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix : SO |
|---|-----------------------------|---------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30 06 a | Final Wqt/Vol: 10 mL |
| % Moisture: 47 | Method: | _ | 4 • |
| | | REPORTING | |
| PARAMETER | RESULT | <u>LIMIT</u> | UNITS |
| Mirex | 120 | 62 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | <u>LIMITS</u> | |
| Tetrachloro-m-xylene | 52 DIL | (31 - 131) | • |
| Decachlorobiphenyl | 65 DIL | (18 - 145) | |
| NOTE(S): | | | |

 $\label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-37.0-0-2

GC Semivolatiles

| _ | 09/15/10 16:23 09/21/10 | Work Order #: Date Received: Analysis Date: | 09/16/10 | Matrix SO | |
|------------------|----------------------------|---|--------------------|----------------------|---|
| Dilution Factor: | 2 | <pre>Initial Wgt/Vol:</pre> | 30.17 g | Final Wgt/Vol: 10 ml | L |
| % Moisture: | 51 | Method | SW846 8081 | В | |
| PARAMETER | | RESULT | REPORTING | UNITS | |
| Mirex | | 24 | 14 | ug/kg | |
| SURROGATE | | PERCENT RECOVERY | RECOVERY LIMITS | | |
| Tetrachloro-m-xy | lene | 54 | (31 - 131) | | |
| Decachlorobiphen | yl | 85 | (18 - 145) | | |
| | | | | • | |

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-37.1R-0-2

GC Semivolatiles

| | _ | 09/16/10 | Matrix : SO |
|-----------------------|-----------------------------|--------------------|----------------------|
| Dilution Factor: 5 | <pre>Initial Wgt/Vol:</pre> | 30.06 g | Final Wgt/Vol: 10 mL |
| % Moisture: 66 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 49 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 49 DIL | (31 - 131) | |
| Decachlorobiphenyl | 80 DIL | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

NOTE(S):

Client Sample ID: SD10-37.2-0-12

GC Semivolatiles

| Lot-Sample #: A0I160575-012 Date Sampled: 09/15/10 17:3 Prep Date: 09/21/10 Prep Batch #: 0264032 | • | 09/16/10 | Matrix SO |
|---|-----------------------------|-------------|----------------------|
| Dilution Factor: 2 | <pre>Initial Wgt/Vol:</pre> | 30.06 g | Final Wgt/Vol: 10 mL |
| % Moisture: 64 | Method: | SW846 8081B | |
| PARAMETER Mirex | RESULT 37 J | | NITS g/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 26 * | (31 - 131) | |
| Decachlorobiphenyl | 32 | (18 - 145) | |
| | | | |

NOTE (S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-37.3R-0-6

GC Semivolatiles

| Lot-Sample #: A0I160575-0 | 13 Work Order #: | : L64E01AJ | Matrix SO |
|---------------------------|--------------------|---------------|----------------------|
| Date Sampled: 09/16/10 08 | :50 Date Received: | : 09/16/10 | |
| Prep Date: 09/21/10 | Analysis Date: | : 09/25/10 | |
| Prep Batch #: 0264032 | | | |
| Dilution Factor: 10 | Initial Wgt/Vol: | : 30.07 g | Final Wgt/Vol: 10 mL |
| % Moisture: 66 | Method | : SW846 8081B | |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT U | NITS |
| Mirex | 190 | 98 ug | g/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 57 DIL | (31 - 131) | |
| Decachlorobiphenyl | 80 DIL | (18 - 145) | |
| · | | | |
| 370mm (41) | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

 $[\]textbf{DII.} \ \textbf{The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: SD10-37.4R-0-4

GC Semivolatiles

| Lot-Sample #: A0I160575-014 Date Sampled: 09/16/10 09:30 Prep Date: 09/21/10 | • | 09/16/10 | Matrix SO |
|--|---------------------|--------------------|----------------------|
| Prep Batch #: 0264032 Dilution Factor: 10 | Talkini Wat /Wai | 70 10 | 721 W /77-1 10 ml |
| | Initial Wgt/Vol: | _ | Final Wgt/Vol: 10 mL |
| % Moisture: 68 | Method: | SW846 8081 | В |
| PARAMETER | RESULT | REPORTING | UNITS |
| Mirex | 260 | 100 | ug/kg |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 64 DIL | (31 - 131) | |
| Decachlorobiphenyl | 91 DIL | (18 - 145) | |
| NOTE (2) | | | |

 $\label{eq:def:DIL} \textbf{ The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-37.5R-0-6

GC Semivolatiles

| Lot-Sample #: A0I160575-015 Date Sampled: 09/16/10 10:10 | Date Received: | 09/16/10 | Matrix : SO |
|--|------------------|-------------|----------------------|
| Prep Date: 09/21/10 | Analysis Date: | 09/25/10 | |
| Prep Batch #: 0264032 | | | |
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.07 g | Final Wgt/Vol: 10 mL |
| % Moisture: 68 | Method: | SW846 8081E | 3 |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 800 J | 100 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 65 DIL | (31 - 131) | |
| Decachlorobiphenyl | 79 DIL | (18 - 145) | |
| NOTE(S): | | | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-DUP4

GC Semivolatiles

| Lot-Sample #: A0I160575-016 Date Sampled: 09/16/10 10:10 Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix SO |
|--|-----------------------------|---------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.1 g | Final Wgt/Vol: 10 mL |
| % Moisture: 67 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 350 J | REPORTING LIMIT 100 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 82 DIL | (31 - 131) | |
| Decachlorobiphenyl | 88 DIL | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-37.6-0-3

GC Semivolatiles

| Lot-Sample #: A0I160575-017 Date Sampled: 09/16/10 11:00 Prep Date: 09/21/10 Prep Batch #: 0264032 | | 09/16/10 | Matrix: SO |
|--|-----------------------------|---------------------------|----------------------|
| Dilution Factor: 1 | <pre>Initial Wgt/Vol:</pre> | 30.15 g | Final Wgt/Vol: 10 mL |
| % Moisture: 53 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT ND | REPORTING LIMIT 7.1 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 52 | (31 - 131) | |
| Decachlorobiphenyl | 74 | (18 - 145) | |
| NOTE(S): | | | |

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SD10-35.7R-0-2

General Chemistry

Lot-Sample #...: A0I160575-001

Work Order #...: L64EC

Matrix..... SO

Date Sampled...: 09/15/10 09:10 Date Received..: 09/16/10

% Moisture....: 48

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 51.8
 10.0
 %
 MCAWW 160.3 MOD
 09/20-09/21/10
 0263164

Dilution Factor: 1

Total Organic

12000

1900 mg/kg

MSA WALKLEY-BLACK 09/23/10

0266079

Carbon

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-35.8R-0-1

General Chemistry

Lot-Sample #...: A0I160575-002

Work Order #...: L64EG

Matrix..... SO

Date Sampled...: 09/15/10 09:50 Date Received..: 09/16/10

% Moisture....: 45

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 54.5 Dil | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organic Carbon | 14000 | 1800 | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-35.9R-0-2

General Chemistry

Matrix....: SO Lot-Sample #...: A0I160575-003 Work Order #...: L64EK

Date Sampled...: 09/15/10 10:25 Date Received..: 09/16/10

% Moisture....: 61

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|---------------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 39.1 pil | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organic Carbon | 32000 | 2600 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

637 **North Canton**

Client Sample ID: SD10-36.0L-0-2

General Chemistry

Lot-Sample #...: A0I160575-004

Work Order #...: L64EM

Matrix....: SO

Date Sampled...: 09/15/10 11:05 Date Received..: 09/16/10

% Moisture....: 56

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH_# | | |
|-------------------------|--------|------------|-------|-------------------|-------------------------------|-----------------|--|--|
| Percent Solids | 43.9 | 10.0 | 8 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 | | |
| Dilution Factor: 1 | | | | | | | | |
| Total Organic Carbon | 21000 | 2300 | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 | | |
| | Dil | ution Fact | or: 1 | | | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-36.1L-0-1

General Chemistry

Lot-Sample #...: A0I160575-005 Work Order #...: L64EN Matrix.....: S0

Date Sampled...: 09/15/10 11:54 Date Received..: 09/16/10

% Moisture....: 62

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION - ANALYSIS DATE | PREP BATCH # |
|-----------------------|--------|------------|-------------------|-------------------|--------------------------------|-----------------|
| Percent Solids | 37.6 | 10.0 | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organi <i>c</i> | 33000 | 2700 | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |
| Carbon | Dil | ution Fact | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-DUP3

General Chemistry

Work Order #...: L64EP Lot-Sample #...: A0I160575-006 Matrix..... SO

Date Sampled...: 09/15/10 11:54 Date Received..: 09/16/10

% Moisture....: 62

| PARAMETER | RESULT | ŖĿ | UNITS | METHOD | PREPARATION - ANALYSIS DATE | PREP BATCH # |
|----------------|--------|------------|----------|-------------------|--------------------------------|-----------------|
| Percent Solids | 38.1 | 10.0 | % | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organic | 34000 | 2600 | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |
| Carbon | Dil | ution Fact | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-36.2R-0-1

General Chemistry

Lot-Sample #...: A0I160575-007 Work Order #...: L64EQ Matrix.....: SO

Date Sampled...: 09/15/10 12:35 Date Received..: 09/16/10

% Moisture....: 47

PREPARATION-PREP RESULT UNITS METHOD ANALYSIS DATE BATCH # PARAMETER RЬ Percent Solids 52.5 10.0 왐 MCAWW 160.3 MOD 09/20-09/21/10 0263164 Dilution Factor: 1 Total Organic 23000 1900 mg/kg MSA WALKLEY-BLACK 09/23/10 0266079 Carbon Dilution Factor: 1

NOTE (S):

RL Reporting Limit

Client Sample ID: SD10-36.3L-0-1

General Chemistry

Lot-Sample #...: A0I160575-008 Work Order #...: L64ER Matrix.....: SO

Date Sampled...: 09/15/10 13:25 Date Received..: 09/16/10

% Moisture....: 58

| 42.2 | 10.0 | 8 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0262164 |
|-------|------------|------------|--|------------------------------------|---|
| Dilu | tion Facto | r: 1 | TOTAL TOTAL POLICE | 03/20-03/21/10 | UZ63164 |
| 31000 | 2400 | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |
| | 31000 | 31000 2400 | Dilution Factor: 1 31000 2400 mg/kg Dilution Factor: 1 | 31000 2400 mg/kg MSA WALKLEY-BLACK | 31000 2400 mg/kg MSA WALKLEY-BLACK 09/23/10 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-36.4L-0-2

General Chemistry

Matrix..... SO

Lot-Sample #...: A0I160575-009 Work Order #...: L64ET

Date Sampled...: 09/15/10 14:00 Date Received..: 09/16/10

% Moisture....: 47

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 53.1 | 10.0 ution Facto | 왕 or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organic Carbon | 17000 | 1900 ution Facto | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

North Canton 643

RL Reporting Limit

Client Sample ID: SD10-37.0-0-2

General Chemistry

Lot-Sample #...: A0I160575-010

Work Order #...: L64EV

Matrix..... SO

Date Sampled...: 09/15/10 16:23 Date Received..: 09/16/10

% Moisture....: 51

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 48.9 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organic Carbon | 20000 | 2000 ution Facto | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-37.1R-0-2

General Chemistry

Lot-Sample #...: A0I160575-011 Work Order #...: L64EW Matrix.....: SO

Date Sampled...: 09/15/10 16:46 Date Received..: 09/16/10

% Moisture....: 66

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|---------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 33.7 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organic Carbon | 35000 Dile | 3000 ation Facto | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

North Canton 645

Client Sample ID: SD10-37.2-0-12

General Chemistry

Lot-Sample #...: A0I160575-012 Work Order #...: L64EX Matrix.....: SO

Date Sampled...: 09/15/10 17:35 Date Received..: 09/16/10

% Moisture....: 64

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION - ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|--------------------|-------------------|-------------------|--------------------------------|-----------------|
| Percent Solids | 35.6 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organic Carbon | 35000 Dil | 2800 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

North Canton 646

Client Sample ID: SD10-37.3R-0-6

General Chemistry

Lot-Sample #...: A0I160575-013 Work Order #...: L64E0 Matrix.....: S0

Date Sampled...: 09/16/10 08:50 Date Received..: 09/16/10

% Moisture....: 66

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|------------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 33.7 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263205 |
| Total Organic Carbon | 37000 pil | 3000 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-37.4R-0-4

General Chemistry

Lot-Sample #...: A0I160575-014 Work Order #...: L64E1 Matrix.....: S0

Date Sampled...: 09/16/10 09:30 Date Received..: 09/16/10

% Moisture....: 68

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|---------------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 32.2 Dil | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organic Carbon | 43000 | 6200 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-37.5R-0-6

General Chemistry

Lot-Sample #...: A0I160575-015 Work Order #...: L64E2 Matrix.....: SO

Date Sampled...: 09/16/10 10:10 Date Received..: 09/16/10

% Moisture....: 68

| PARAMETER | RESULT | RL. | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 32.2 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263164 |
| Total Organic Carbon | 48000 | 6200 | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE (S) :
RL Reporting Limit

Client Sample ID: SD10-DUP4

General Chemistry

Lot-Sample #...: A0I160575-016 Work Order #...: L64E3 Matrix.....: SO

Date Sampled...: 09/16/10 10:10 Date Received..: 09/16/10

% Moisture....: 67

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 32.8 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263205 |
| Total Organic Carbon | 49000 | 6100 | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |
| | D11 | ution Facto | or: 2 | | | |
| NOTE(S): | | | | | | |

RL Reporting Limit

Client Sample ID: SD10-37.6-0-3

General Chemistry

Lot-Sample #...: A0I160575-017 Work Order #...: L64E4 Matrix.....: S0

Date Sampled...: 09/16/10 11:00 Date Received..: 09/16/10

% Moisture....: 53

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|--------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 46.7 Dil | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 09/20-09/21/10 | 0263205 |
| Total Organic Carbon | 21000 | 2100 ution Fact | mg/kg | MSA WALKLEY-BLACK | 09/23/10 | 0266079 |

NOTE(S):

RL Reporting Limit

SAMPLE SUMMARY

A0I160575

| <u>WO #</u> | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------------|---------|------------------|-----------------|--------------|
| L64EC | 001 | SD10-35.7R-0-2 | 09/15/10 | 09:10 |
| L64EG | 002 | SD10-35.8R-0-1 | 09/15/10 | 09:50 |
| L64EK | 003 | SD10-35.9R-0-2 | 09/15/10 | 10:25 |
| L64EM | 004 | SD10-36.0L-0-2 | 09/15/10 | 11:05 |
| L64EN | 005 | SD10-36.1L-0-1 | 09/15/10 | 11:54 |
| L64EP | 006 | SD10-DUP3 | 09/15/10 | 11:54 |
| L64EQ | 007 | SD10-36,2R-0-1 | 09/15/10 | 12:35 |
| L64ER | 800 | SD10-36.3L-0-1 | 09/15/10 | 13:25 |
| L64ET | 009 | SD10-36.4L-0-2 | 09/15/10 | 14:00 |
| L64EV | 010 | SD10-37.0-0-2 | 09/15/10 | 16:23 |
| L64EW | 011 | SD10-37.1R-0-2 | 09/15/10 | 16:46 |
| L64EX | 012 | SD10-37.2-0-12 | 09/15/10 | 17:35 |
| L64E0 | 013 | SD10-37.3R-0-6 | 09/16/10 | 08:50 |
| L64E1 | 014 | SD10-37,4R-0-4 | 09/16/10 | 09:30 |
| L64E2 | 015 | SD10-37.5R-0-6 | 09/16/10 | 10:10 |
| L64E3 | 016 | SD10-DUP4 | 09/16/10 | 10:10 |
| L64E4 | 017 | SD10-37.6-0-3 | 09/16/10 | 11:00 |

NOTE(S):

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⁻ The analytical results of the samples listed above are presented on the following pages.

⁻ All calculations are performed before rounding to avoid round-off errors in calculated results.

⁻ Results noted as "ND" were not detected at or above the stated limit.

⁻ This report must not be reproduced, except in full, without the written approval of the laboratory.

⁻ Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

L64€C 200-1593-1

S10-35.7R-0-2

Lab Sample ID:

Client Matrix: Solid Date Sampled: 09/15/2010 0910 Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-C-1.txt

Dilution:

Initial Weight/Volume:

126.29 g

Date Analyzed:

1.0 09/20/2010 2046

Final Weight/Volume:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

40.4

NONE

NONE

Analyte Gravel \bigcirc (59.6) Sand Coarse Sand 0.8 Medium Sand 7.2 Fine Sand 51.6 Silt 37.0 Clay 3.4

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

S10-35.8R-0-1

Lab Sample ID:

200-1593-2

Client Matrix:

Solid

Date Sampled: 09/15/2010 0950

Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

200-1593-C-2.txt

Dilution:

Lab File ID: Initial Weight/Volume:

206.27 g

Date Analyzed:

1.0

09/20/2010 2048

Final Weight/Volume:

Date Prepared:

Analyte

Clay

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand Coarse Sand Medium Sand Fine Sand Silt

(0.4)48.5 1.0

6.8 40,7

44.1 51.1 7.0

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

Solid

SB10-35.9R-0-2

Lab Sample ID:

09/20/2010 2051

Client Matrix:

L64EK . 200-1593-3

Date Sampled: 09/15/2010 1025

Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-C-3.txt

Dilution:

Initial Weight/Volume:

229.39 g

Date Analyzed:

1.0

Final Weight/Volume:

Date Prepared:

Analyte

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand 24.7 Coarse Sand Medium Sand 1.6 Fine Sand 23.0 Silt 70.4 5.0 Clay

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

L64FM SD10-36.0L-0-2

Lab Sample ID:

200-1593-4

Client Matrix:

Solid

Date Sampled: 09/15/2010 1105

Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-C-4.txt

Initial Weight/Volume:

302.06 g

Dilution: Date Analyzed:

Analyte

Clay

1.0

09/20/2010 2056

Final Weight/Volume:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand Coarse Sand Medium Sand Fine Sand Silt

(0.0) 39.8 0,2 4,2

35.4 53.9

6.3

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

LEGIEN SOIU-36.1 L-0-1

Lab Sample ID:

200-1593-5

Client Matrix:

Solid

Date Sampled: 09/15/2010 1154 Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-C-5.txt

Dilution:

Initial Weight/Volume:

122.66 g

Date Analyzed:

1.0 09/20/2010 2059

Final Weight/Volume:

Date Prepared:

Analyte

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand Coarse Sand Medium Sand Fine Sand

Silt

Clay

15.9 68.2 15.5 7

16.3

0.1 0.3

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

SD10-DUP3

Lab Sample ID:

200-1593-6

Client Matrix:

Solid

Date Sampled: 09/15/2010 1154 Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-B-6.txt

Dilution:

Initial Weight/Volume:

120.08 g

Date Analyzed:

1.0

09/20/2010 2138

Final Weight/Volume:

Date Prepared:

Analyte

Clay

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand Coarse Sand Medium Sand Fine Sand Silt

15,1 0.0 0.3 14.8 68.8 16.1 >

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

SD10-36.2R-0-1

Lab Sample ID:

200-1593-7

09/20/2010 2141

Client Matrix:

Solid

Date Sampled: 09/15/2010 1235 Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-G-7.txt

Dilution:

Initial Weight/Volume:

196.41 g

1.0

Final Weight/Volume:

Date Analyzed:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Analyte Gravel Sand 36.7 Coarse Sand 0.5 1.9 Medium Sand 34.3 Fine Sand 55.2 Silt Clay

8.1

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

SD10 -36.3L-0-1

Lab Sample ID: Client Matrix:

200-1593-8

Solid

Date Sampled: 09/15/2010 1325 Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-C-8.txt

Dilution:

Initial Weight/Volume:

204.62 g

Date Analyzed:

Analyte

Clay

1.0

09/20/2010 2147

Final Weight/Volume:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand Coarse Sand Medium Sand Fine Sand Silt

(ون) (27.8 0.3 2,3

25.2

63.0 7 72 . 2

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

1645 SD10-36.41L-0-2

Lab Sample ID:

200-1593-9

09/20/2010 2150

Client Matrix:

Solid

Date Sampled: 09/15/2010 1400

Date Received: 09/18/2010 0945

D422 Grain Size

7 52.6

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

200-1593-C-9.txt

Dilution:

N/A 1.0

Lab File ID:

Initial Weight/Volume: Final Weight/Volume:

204.69 g

Date Analyzed:

Date Prepared:

Qualifier

NONE

NONE

Result (%) Analyte DryWt Corrected: N Gravel (O.Đ 47.4 Sand Coarse Sand 0.2 Medium Sand 1.7 Fine Sand 45.5 Silt 46.6 Clay

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

5010-37.0-0-2

Lab Sample ID: Client Matrix:

200-1593-10

Solid

Date Sampled: 09/15/2010 1623

Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-C-10.txt

Dilution:

1.0

Initial Weight/Volume:

241.9 g

Date Analyzed: Date Prepared:

09/20/2010 2153

Final Weight/Volume:

DryWt Corrected: N Result (%) Qualifier NONE NONE Analyte Gravel (0.0)Sand 53.g Coarse Sand 0.5 Medium Sand 4.4 48.1 Fine Sand ^{42.2} 7 Silt 47.0 Clay

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

LEAFW SDID -37. 1R-0-2

Lab Sample ID:

Client Matrix:

200-1593-11

Solid

Date Sampled: 09/15/2010 1646 Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-C-11.txt

Dilution:

1.0

Initial Weight/Volume:

177,84 g

Date Analyzed: Date Prepared:

09/20/2010 2156

Final Weight/Volume:

Analyte

Silt

Clay

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand Coarse Sand Medium Sand Fine Sand

 Q_0 (15.9_ 0.0 1.6 14.3 73.5 7 10.6

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

LEGEX SD 10-37.2-0-12

Lab Sample ID:

200-1593-12

Client Matrix:

Solid

Date Sampled: 09/15/2010 1735 Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

200-1593-C-12.bt

Dilution:

Lab File ID:

Initial Weight/Volume:

233.27 g

Date Analyzed:

1.0 09/20/2010 2219

Final Weight/Volume:

Date Prepared:

DryWt Corrected: N

Qualifier

NONE

NONE

Result (%) Analyte Gravel 0.02 Sand Coarse Sand 0.0 Medium Sand 0.7 Fine Sand 22.2 70.8 Silt

Clay

77.1 6.3

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

LGGEO SD10-37.3R-0-6

Lab Sample ID:

200-1593-13

Client Matrix:

Solid

Date Sampled: 09/16/2010 0850

Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

200-1593-G-13.txt

N/A

Lab File ID:

Dilution:

Initial Weight/Volume:

215.87 g

Date Analyzed:

1.0

09/20/2010 2222

Final Weight/Volume:

Date Prepared:

Analyte Gravel

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Sand Coarse Sand Medium Sand Fine Sand Silt

Clay

(200) 38.4 0.4 2,5 35.5 52.7

8.3

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

LGAET SD10-37,42-0-4

Lab Sample ID:

200-1593-14

09/20/2010 2226

Client Matrix:

Solid

Date Sampled: 09/16/2010 0930 Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-C-14.txt

Dilution:

Final Weight/Volume:

Analyte

Clay

1.0

Initial Weight/Volume:

207.32 g

Date Analyzed:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand Coarse Sand Medium Sand Fine Sand Silt

(0.8)س2.00 0.8 2.7 26,5 60.5 8.7

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

LG/E2 SD10-37.5R-0-6 200-1593-15

Lab Sample ID:

Client Matrix:

Solid

Date Sampled: 09/16/2010 1010

Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1593-C-15.txt

NONE

Dilution:

1.0

Initial Weight/Volume:

Qualifier

173.46 g

Date Analyzed:

09/20/2010 2229

Final Weight/Volume:

NONE

Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) |
|-------------|--------------------|------------|
| Gravel | AAA | Q.D |
| Sand | | (15,7) |
| Coarse Sand | | 0.2 |
| Medium Sand | | 0.7 |
| Fine Sand | | 14.8 |
| Silt ' | | 71.5 |

Clay

11.5 7 84.2

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1593-1

Sdg Number: A0I160575

Client Sample ID:

SD10-DUPY SD10-37.6-0-3

Lab Sample ID:

200-1593-16

Client Matrix: Solid

Date Sampled: 09/16/2010 1100

Date Received: 09/18/2010 0945

D422 Grain Size

Method:

D422

Analysis Batch: 200-6898

Instrument ID:

D422 import

Preparation:

N/A

Lab File ID:

200-1593-C-16.txt

Dilution:

1.0

Initial Weight/Volume:

207.81 g

Date Analyzed:

09/20/2010 2233

Final Weight/Volume:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Analyte Gravel Sand Coarse Sand Medium Sand Fine Sand Silt Clay

42.4 48.8 4.5

46.5

0.7

3.4

Client Sample ID: SD10-36.1C-0-3

General Chemistry

Lot-Sample #...: A0J120402-001

Work Order #...: L798X

Matrix....: SO

Date Sampled...: 09/15/10 11:35 Date Received..: 09/16/10

% Moisture....: 27

| PARAMETER Percent Solids | RESULT 72.5 | RL 10.0 | UNITS % | METHOD MCAWW 160.3 MOD | PREPARATION- ANALYSIS DATE 10/15-10/18/10 | PREP BATCH # 0288148 |
|--------------------------|-------------|---------------------|------------|------------------------|---|----------------------------|
| Total Organic | 3200 | ution Facto 1400 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286421 |

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Client Sample ID: SD10-37.6C-0-2

General Chemistry

Lot-Sample #...: A0J120402-002

Work Order #...: L7980

Matrix..... SO

Date Sampled...: 09/16/10 10:50 Date Received..: 09/16/10

% Moisture....: 29

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|--------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 71.1 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 10/15-10/18/10 | 0288148 |
| Total Organic Carbon | 1600 | 1400 ution Fact | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286421 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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RL Reporting Limit

Client Sample ID: FPS10-002-01

GC Semivolatiles

| Lot-Sample #: A0I220591-001 Date Sampled: 09/20/10 11:20 Prep Date: 09/30/10 Prep Batch #: 0273035 | ** | 09/22/10 | Ma trix SO |
|--|------------------|-------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.04 g | Final Wgt/Vol: 10 mL |
| % Moisture: 27 | Method: | SW846 8081E | 3 |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 560 | 45 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 96 DIL | (31 - 131) | |
| Decachlorobiphenyl | 106 DIL | (18 - 145) | |
| NOTE(S): | | | |

 $\label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-003

GC Semivolatiles

| Lot-Sample #: A0I220591-00 Date Sampled: 09/20/10 13: Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/22/10 | Matrix SO |
|---|------------------|--------------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.07 g | Final Wgt/Vol: 10 mL |
| % Moisture: 26 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 450 | REPORTING LIMIT 45 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 93 DIL | (31 - 131) | |
| Decachlorobiphenyl | 78 DIL | (18 - 145) | |
| | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

North Canton

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DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: FPS10-001

GC Semivolatiles

| Lot-Sample #: A0I220591-007 Date Sampled: 09/20/10 16:09 Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/22/10 | Matrix: SO |
|--|------------------|--------------|----------------------|
| Dilution Factor: 1 | Initial Wgt/Vol: | 30.01 g | Final Wgt/Vol: 10 mL |
| % Moisture: 43 | Method: | SW846 8081 | В |
| D. P. A. M. LIGHT D | DDGW M | REPORTING | IDITAL |
| PARAMETER | RESULT | <u>LIMIT</u> | UNITS |
| Mirex | 14 | 5.8 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | · |
| Tetrachloro-m-xylene | 70 | (31 - 131) | |
| Decachlorobiphenyl | 65 | (18 - 145) | |
| MOVER (C). | | | |

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-DUP-H-01

GC Semivolatiles

| Lot-Sample #: A01220591-008 Date Sampled: 09/20/10 16:09 Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/22/10 | Matrix: SO |
|--|-----------------------------|-------------|----------------------|
| Dilution Factor: 1 | <pre>Initial Wgt/Vol:</pre> | - | Final Wgt/Vol: 10 mL |
| % Moisture: 45 | Method: | SW846 8081E | |
| PARAMETER Mirex | RESULT 8.6 | | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 60 | (31 - 131) | |
| Decachlorobiphenyl | 53 . | (18 - 145) | |
| NOTE(S): | | | <u> </u> |

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-004

GC Semivolatiles

| Lot-Sample #: A0I220591-01 Date Sampled: 09/21/10 09: Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/22/10 | Matrix: | so |
|---|-----------------------------|-------------|----------------|-------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.04 g | Final Wgt/Vol: | 10 mL |
| % Moisture: 42 | Method: | SW846 8081B | | |
| PARAMETER Mirex | RESULT 510 | | iits j/kg | |
| | PERCENT | RECOVERY | | |
| SURROGATE | RECOVERY | LIMITS | | |
| Tetrachloro-m-xylene | 81 DIL | (31 - 131) | | |
| Decachlorobiphenyl | 44 DIL | (18 - 145) | | |
| NOTE (C). | | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-005

GC Semivolatiles

| Lot-Sample #: A0I220591-015 Date Sampled: 09/21/10 11:2 Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/22/10 | Matrix SO |
|---|------------------|------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.06 g | Final Wgt/Vol: 10 mL |
| % Moisture: 54 | Method: | SW846 8081 | В |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 170 | 72 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 83 DIL | (31 - 131) | |
| Decachlorobiphenyl | 75 DIL | (18 - 145) | |
| NOTE(S): | | | |

 $[\]label{eq:def:DIL} \textbf{ The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: FPS10-006

GC Semivolatiles

| Lot-Sample #: A0I220591-018 Date Sampled: 09/21/10 13:10 Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/22/10 | Matrix ; SO |
|--|-----------------------------|--------------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.08 g | Final Wgt/Vol: 10 mL |
| % Moisture: 25 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 300 | REPORTING LIMIT 44 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 87 DIL | (31 - 131) | |
| Decachlorobiphenyl | 88 DIL | (18 - 145) | |
| NOTE(S): | · | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-007

GC Semivolatiles

| Lot-Sample #: A0I220591-021 Date Sampled: 09/21/10 14:50 Prep Date: 09/30/10 Prep Batch #: 0273035 | == | 09/22/10 | Matrix : SO |
|--|---------------------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30 g | Final Wgt/Vol: 10 mL |
| % Moisture: 17 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 600 | REPORTING LIMIT 40 | UNITS ug/kg |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 93 DIL | (31 - 131) | |
| Decachlorobiphenyl | 77 DIL | (18 - 145) | |
| becachiotoptpheny1 | // 1/11 | (10 - 145) | |
| NOTE(S): | · · · · · · · · · · · · · · · · · · · | | |

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: FPS10-008-01

GC Semivolatiles

| Lot-Sample #: A01220591-022 Date Sampled: 09/21/10 16:20 Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/22/10 | Matrix SO |
|--|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.02 g | Final Wgt/Vol: 10 mL |
| % Moisture: 22 | Method: | SW846 8081E | 3 |
| PARAMETER Mirex | RESULT 90 | REPORTING LIMIT 43 | UNITS ug/kg |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 89 DIL | (31 - 131) | |
| Decachlorobiphenyl | 84 DIL | (18 - 145) | |
| NOTES (C) | | | |

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-008-02

GC Semivolatiles

| Lot-Sample #: A0I220591-023 Date Sampled: 09/21/10 17:29 Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/22/10 | Matrix SO |
|--|-----------------------------|---------------------|----------------------|
| Dilution Factor: 1 | <pre>Initial Wgt/Vol:</pre> | 30.1 g | Final Wgt/Vol: 10 mL |
| % Moisture: 26 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 9.6 PCJ | REPORTING LIMIT 4.5 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 84 | (31 - 131) | |
| Decachlorobiphenyl | 78 | (18 - 145) | |
| | | | |

Results and reporting limits have been adjusted for dry weight.

NOTE(S):

PG The percent difference between the original and confirmation analyses is greater than 40%.

Client Sample ID: FPS10-002-01

General Chemistry

Lot-Sample #...: A0I220591-001

Work Order #...: L7CJA

Matrix..... SO

Date Sampled...: 09/20/10 11:20 Date Received..: 09/22/10
% Moisture....: 27

| | | | | | PREPARATION- | PREP |
|----------------|--------|-----------|-------|-----------------|----------------|---------|
| PARAMETER | RESULT | <u>RL</u> | UNITS | METHOD | ANALYSIS DATE | BATCH # |
| Percent Solids | 72.9 | 10.0 | 음 | MCAWW 160.3 MOD | 10/01-10/04/10 | 0274278 |

Dilution Factor: 1

Total Organic Carbon 14000

1400 mg/kg

MSA WALKLEY-BLACK 10/06/10

0279303

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-003

General Chemistry

Lot-Sample #...: A0I220591-004 Work Order #...: L7CJJ Matrix.....: S0

Date Sampled...: 09/20/10 13:55 Date Received..: 09/22/10

% Moisture....: 26

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 74.0 | 10.0 ution Facto | ቴ or: l | MCAWW 160.3 MOD | 10/01-10/04/10 | 0274278 |
| Total Organic Carbon | 16000 | 1400 ution Facto | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |

NOTE(S):
RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-001

General Chemistry

Lot-Sample #...: A0I220591-007 Work Order #...: L7CJN Matrix.....: S0
Date Sampled...: 09/20/10 16:05 Date Received..: 09/22/10

% Moisture....: 43

PREPARATION-PREP PARAMETER RESULT <u>RL</u>___ UNITS METHOD ANALYSIS DATE BATCH # Percent Solids 57.4 10.0 MCAWW 160.3 MOD 10/01-10/04/10 0274278 Dilution Factor: 1 16000J Total Organic 1700 MSA WALKLEY-BLACK 10/06/10 mg/kg 0279303 Carbon Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-DUP-H-01

General Chemistry

Lot-Sample #...: A0I220591-008 Work Order #...: L7CJQ Matrix....: SO

Date Sampled...: 09/20/10 16:05 Date Received..: 09/22/10

% Moisture....: 45

PREPARATION-PREP PARAMETER RESULT RL UNITS METHOD ANALYSIS DATE BATCH # Percent Solids 55.0 10.0 MCAWW 160.3 MOD 10/01-10/04/10 0274278 Dilution Factor: 1 12000 J Total Organic 1800 MSA WALKLEY-BLACK 10/06/10 mg/kg 0279303 Carbon

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-004

General Chemistry

Lot-Sample #...: A0I220591-012 Work Order #...: L7CKD Matrix......: S0

Date Sampled...: 09/21/10 09:50 Date Received..: 09/22/10

% Moisture....: 42

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|---------------------|------------|---------------------|-------------------------------|-----------------|
| Percent Solids | 58.1 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/01-10/04/10 | 0274278 |
| Total Organic Carbon | 22000 | 1700 | mg/kg | MSA WALKI.EY-BI.ACK | 10/06/10 | 0279303 |

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-005

General Chemistry

Lot-Sample #...: A0I220591-015 Work Order #...: L7CKM Matrix.....: S0

Date Sampled...: 09/21/10 11:20 Date Received..: 09/22/10

% Moisture....: 54

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 45.8 Dil | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 10/01-10/04/10 | 0274278 |
| Total Organic Carbon | 13000 | 2200 ution Fact | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-006

General Chemistry

Lot-Sample #...: A0I220591-018 Work Order #...: L7CK1 Matrix.....: SO

Date Sampled...: 09/21/10 13:10 Date Received..: 09/22/10

% Moisture....: 25

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 75.3 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/01-10/04/10 | 0274279 |
| Total Organic Carbon | 13000 | 1300 ution Facto | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-007

General Chemistry

Lot-Sample #...: A0I220591-021 Work Order #...: L7CK9 Matrix.....: S0

Date Sampled...: 09/21/10 14:50 Date Received..: 09/22/10

% Moisture....: 17

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 83.3 | 10.0 ution Fact | ቼ or: 1 | MCAWW 160.3 MOD | 10/01-10/04/10 | 0274279 |
| Total Organic Carbon | 8000 | 1200 ution Fact | mg/kg | MSA WALKLRY-BLACK | 10/06/10 | 0279303 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: FPS10-008-01

General Chemistry

Lot-Sample #...: A0I220591-022 Work Order #...: L7CLF Matrix...... S0

Date Sampled...: 09/21/10 16:20 Date Received..: 09/22/10

% Moisture....: 22

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 77.6 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 10/01-10/04/10 | 0274279 |
| Total Organic Carbon | 11000 | 1300 | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |
| | Dil | ution Fact | or: 1 | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-008-02

General Chemistry

Lot-Sample #...: A0I220591-023 Work Ore

Work Order #...: L7CLG

Matrix..... SO

Date Sampled...: 09/21/10 17:25 Date Received..: 09/22/10

% Moisture....: 26

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH_# |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 74.2 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/01-10/04/10 | 0274279 |
| Total Organic Carbon | 16000 | 1300 | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |

Dilution Factor:

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1700-1

Sdg Number: A0I220591

Client Sample ID:

FP\$10-002-01

Lab Sample ID:

200-1700-1

Client Matrix:

Solid

Date Sampled: 09/20/2010 1120

Date Received: 09/24/2010 1005

D422 Grain Size

Method:

D422 N/A

Analysis Batch: 200-7281

Instrument ID:

D422_import 200-1700-B-1.txt

NONE

Preparation:

Lab File ID: Initial Weight/Volume:

Qualifier

147.21 g

Dilution: Date Analyzed: 1.0

09/28/2010 1626

Final Weight/Volume:

NONE

Date Prepared:

DryWt Corrected: N Analyte Result (%) Gravel 1.1 Sand 40,6 Coarse Sand 1.9 Medium Sand 5,9 Fine Sand 32.8

Clay

58.3 46.1 12.2

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1700-1

Sdg Number: A0I220591

Client Sample ID:

FPS10-003

Lab Sample ID:

200-1700-2

Client Matrix:

Solid

Date Sampled: 09/20/2010 1355

Date Received: 09/24/2010 1005

D422 Grain Size

Method:

D422

Analysis Batch: 200-7281

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

Qualifier

200-1700-B-2.txt

NONE

Dilution: Date Analyzed: 1.0

09/28/2010 1630

Initial Weight/Volume: Final Weight/Volume:

NONE

140.88 g

Date Prepared:

 Analyte
 DryWl Corrected: N
 Result (%)

 Gravel
 0.9

 Sand
 51.2

 Coarse Sand
 4.7

 Medium Sand
 15.1

 Fine Sand
 31.4

 Silt
 37.8

Clay

37.8 10.1 47 9

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1700-1

Sdg Number: A01220591

Client Sample ID:

FPS10-001

Lab Sample ID:

200-1700-3

Client Matrix:

Solid

Date Sampled: 09/20/2010 1605

Date Received: 09/24/2010 1005

D422 Grain Size

Method: Preparation: D422 N/A

Analysis Batch; 200-7281

Instrument ID:

D422_import

NONE

Dilution:

Lab File ID:

Qualifier

200-1700-B-3.txt

Date Analyzed:

1.0

09/28/2010 1635

Initial Weight/Volume: Final Weight/Volume:

NONE

143.37 g

Date Prepared:

DryWt Corrected: N Analyte Gravel Sand

Coarse Sand Medium Sand Fine Sand

Silt

Clay

7.6 30.7 51.9

Result (%)

0.0

39.0

0.7

61.0

473

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1700-1

Sdg Number: A0I220591

Client Sample ID:

FPS10-004

Lab Sample ID:

200-1700-4

Client Matrix:

Solid

Date Sampled: 09/21/2010 0950

Date Received: 09/24/2010 1005

D422 Grain Size

Method: Preparation:

D422 N/A

Analysis Batch: 200-7281

Instrument ID:

D422_import

Dilution:

Lab File ID:

200-1700-B-4.txt

Date Analyzed:

1.0

09/28/2010 1637

Initial Weight/Volume:

122,3 g

Date Prepared:

Final Weight/Volume:

DryWt Corrected: N Qualifier NONE NONE Result (%) Analyte Gravel 0.0 Sand 42.2 Coarse Sand 0.5 Medium Sand 3,0 38.7 Fine Sand Silt 44.0 Clay 13.8

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1700-1

Sdg Number: A0I220591

Client Sample ID:

FPS10-005

Lab Sample ID:

200-1700-5

Client Matrix:

Solid

Date Sampled: 09/21/2010 1120

Date Received: 09/24/2010 1005

D422 Grain Size

Method: Preparation: D422 N/A

Analysis Batch: 200-7281

Instrument ID:

D422_import

NONE

Lab File ID:

Qualifier

200-1700-B-5.txt

Dilution: Date Analyzed: 1,0

09/28/2010 1639

Initial Weight/Volume: Final Weight/Volume:

NONE

125,68 g

Date Prepared:

DryWt Corrected: N Result (%) Analyte Gravel 0.0 Sand 35.3 Coarse Sand 2.1 Medium Sand 4.5

Fine Sand Silt

Clay

28.7 r.hu 45.5

19.2

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1700-1

Sdg Number: A0I220591

Client Sample ID:

FP\$10-006

Lab Sample ID:

200-1700-6

Client Matrix:

Solid

Date Sampled: 09/21/2010 1310

Date Received: 09/24/2010 1005

D422 Grain Size

Method: Preparation: D422 N/A

Analysis Batch: 200-7281

Instrument ID:

D422_import

Lab File ID:

200-1700-B-6.bdt

Dilution: Date Analyzed:

1.0 09/28/2010 1642 Initial Weight/Volume:

161.1 g

Date Prepared:

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------------------|-----------|------|--|
| Gravel | | 6.8 | | | annon i and a second bosses of the control of the c |
| Sand | | 52.4 | | | |
| Coarse Sand | | 1,2 | | | |
| Medium Sand | | 7.3 | | | |
| Fine Sand | | 43.9 | | | |
| Silt | | 33.1 _{JO} , B | | | |
| Clay | | 7.7 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1700-1

Sdg Number: A0I220591

Client Sample ID:

FPS10-007

Lab Sample ID:

200-1700-7

Client Matrix:

Solid

Date Sampled: 09/21/2010 1450 Date Received: 09/24/2010 1005

D422 Grain Size

Method: Preparation: D422 N/A Analysis Batch: 200-7281

Instrument ID: Lab File ID: D422_import 200-1700-D-7.txt

NONE

Dilution:

1.0

09/28/2010 1645

Initial Weight/Volume: Final Weight/Volume:

173.07 g

Date Analyzed: Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE |
|-------------|--------------------|----------------------|-----------|------|
| Gravel | | 1.1 | | |
| Sand | | 72,3 | | |
| Coarse Sand | | 2.4 | | |
| Medium Sand | | 10.6 | | |
| Fine Sand | | 59.3 | | |
| Silt | | کریا ^{20.9} | Q | |
| Clay | | 5.7 | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1700-1

Sdg Number: A0l220591

Client Sample ID:

FPS10-008-01

Lab Sample ID:

200-1700-8

Client Matrix:

Solid

Date Sampled: 09/21/2010 1620

Date Received: 09/24/2010 1005

D422 Grain Size

4.15

Method: Preparation: D422 N/A Analysis Batch: 200-7281

Instrument ID: Lab File ID:

Qualifier

D422_import 200-1700-B-8.txt

NONE

Dilution: Date Analyzed: 1.0

09/28/2010 1650

Initial Weight/Volume: Final Weight/Volume:

NONE

163.78 g

Date Prepared:

Analyte DryWt Corrected: N Result (%) 0.9 Gravel Sand 57.3 Coarse Sand 0.7 Medium Sand 9.1 Fine Sand 47.5 Silt 34.0 Clay 7.8

 \int

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1700-1

Sdg Number: A0I220591

Client Sample ID:

FPS10-008-02

Lab Sample ID:

200-1700-9

Client Matrix:

Solid

Date Sampled: 09/21/2010 1725

Date Received: 09/24/2010 1005

D422 Grain Size

Method:

D422

Analysis Batch: 200-7281

Instrument ID:

D422_import

Preparation:

N/A

313 Daton, 200-720 1

Lab File ID:

200-1700-B-9.txt

Dilution: Date Analyzed: 1.0

09/28/2010 1808

Initial Weight/Volume:

159.03 g

Date Prepared:

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|--|
| Gravel | | 3.0 | | | American against an ann an ann an ann an ann an ann an a |
| Sand | | 40.8 | | | |
| Coarse Sand | | 1.6 | | | |
| Medium Sand | | 5.8 | | | |
| Fine Sand | | 33.4 | ^ | | |
| Silt | | 45.9 | .'V | | |
| Clav | | 10.3 | | | |

Client Sample ID: FPS10-010

GC Semivolatiles

| Lot-Sample #: A0I240563-003 Date Sampled: 09/22/10 12:3 Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/24/10 | Matrix SO |
|---|-----------------------------|-------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.05 g | Final Wgt/Vol: 10 mL |
| % Moisture: 23 | Method: | SW846 8081B | |
| PARAMETER Mirex | RESULT 170 | | NITS g/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 92 DIL | (31 - 131) | |
| ${	t Decachlorobiphenyl}$ | 78 DIL | (18 - 145) | |
| NAME (C) | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: FPS10-011

GC Semivolatiles

| Lot-Sample #: A0I240563-006 Date Sampled: 09/22/10 15:3 Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/24/10 | Matrix SO |
|---|-----------------------------|-------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.09 g | Final Wgt/Vol: 10 mL |
| % Moisture: 27 | Method: | SW846 8081B | _ |
| PARAMETER Mirex | RESULT | | NITS g/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 92 DIL | (31 - 131) | |
| Decachlorobiphenyl | 65 DIL | (18 - 145) | |
| NORD (G) | | | |

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-DUP-H-02

GC Semivolatiles

| Lot-Sample #: A0I Date Sampled: 09/ Prep Date: 09/ Prep Batch #: 027 | 22/10 15:35 Date 30/10 Anal | | 09/24/10 | Matrix | | so |
|--|--|----------------|--------------------------|----------------|----------|-------|
| Dilution Factor: 10 | Init | ial Wgt/Vol: : | 30.16 g | Final | Wgt/Vol: | 10 mL |
| % Moisture: 26 | | od | - | | | |
| PARAMETER Mirex | RESU. 280 C | LT | REPORTING LIMIT 44 | UNITS ug/kg | | |
| | PERC: | ENT) | RECOVERY | | | |
| SURROGATE | RECO | VERY_ | LIMITS | | | |
| Tetrachloro-m-xylene | 86 D | IL - | (31 - 131) | | | |
| Decachlorobiphenyl | 67 D | IT | (18 - 145) | | | |
| | | | | | | |

 $\label{eq:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

NOTE(S):

Client Sample ID: FPS10-012

GC Semivolatiles

| Lot-Sample #: A0I240563-010 Date Sampled: 09/23/10 12:2 Prep Date: 09/30/10 Prep Batch #: 0273035 | | 09/24/10 | Matrix SO |
|---|------------------|-------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.01 g | Final Wgt/Vol: 10 mL |
| % Moisture: 24 | Method: | SW846 8081B | |
| PARAMETER Mirex | RESULT 1100 | | NITS g/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 95 DIL | (31 - 131) | |
| Decachlorobiphenyl | 91 DIL | (18 - 145) | |
| NOWE (G) | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-010

General Chemistry

Lot-Sample #...: A0I240563-003

Work Order #...: L7GP5

Matrix..... SO

Date Sampled...: 09/22/10 12:35 Date Received..: 09/24/10

% Moisture....: 23

PREPARATION-PREP ANALYSIS DATE BATCH # PARAMETER RESULT RLUNITS METHOD 10.0 10/04-10/05/10 0277206 Percent Solids 왐 MCAWW 160.3 MOD 76.7

Dilution Factor: 1

Total Organic

17000

1300 mg/kg MSA WALKLEY-BLACK 10/06/10

0279303

Carbon

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-011

General Chemistry

Lot-Sample #...: A0I240563-006

Work Order #...: L7GQ3

Matrix..... SO

Date Sampled...: 09/22/10 15:35 Date Received..: 09/24/10 % Moisture....: 27

PREPARATION-PREP RESULT PARAMETER RL UNITS METHOD ANALYSIS DATE BATCH # MCAWW 160.3 MOD Percent Solids 73.2 10.0 왐 10/04-10/05/10 0277206 Dilution Factor: 1 Total Organic 17000 1400 MSA WALKLEY-BLACK 10/06/10 mg/kg 0279303 Carbon

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-DUP-H-02

General Chemistry

Lot-Sample #...: A01240563-007

Work Order #...: L7GQ8

Matrix..... so

Date Sampled...: 09/22/10 15:35 Date Received..: 09/24/10

% Moisture....: 26

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 74.4 Dil | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/04-10/05/10 | 0277206 |
| Total Organic Carbon | 13000 | 1300 | mg/kg | MSA WALKLEY-BLACK | 10/06/10 | 0279303 |

NOTE(S):

RL. Reporting Limit

Client Sample ID: FPS10-012

General Chemistry

Lot-Sample #...: A01240563-010 Work Order #...: L7GRN Matrix.....: S0

Date Sampled...: 09/23/10 12:20 Date Received..: 09/24/10

% Moisture....: 24

PREPARATION-PREP RLPARAMETER RESULT UNITS METHOD ANALYSIS DATE BATCH # Percent Solids 75.8 10.0 MCAWW 160.3 MOD 10/04-10/05/10 0277206 Dilution Factor: 1 Total Organic 14000 1300 MSA WALKLEY-BLACK 10/06/10 mg/kg 0279303 Carbon Dilution Factor: 1

NOTE(S):

RL Reporting Limit

SAMPLE SUMMARY

A01240563

| D SAMP TIME |
|--------------------|
| 10 12:35 |
| 10 15:35 |
| 10 15:35 |
| 10 12:20 |
| |
| 10 15:3 10 15:3 |

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results,
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, lemperature, viscosity, and weight.

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1715-1

Sdg Number: A0I240563

Client Sample ID:

L7GRN

FPS10-012

Lab Sample ID:

200-1715-3

Client Matrix: Solid

Date Sampled: 09/23/2010 1220 Date Received: 09/25/2010 0930

D422 Grain Size

49.2

Method:

D422

Analysis Batch: 200-7139

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1715-B-3.txt

Dilution:

Initial Weight/Volume:

107.64 g

Date Analyzed:

1.0

09/27/2010 1235

Final Weight/Volume:

Date Prepared:

Analyte

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel 0.1 Sand 50.7 Coarse Sand 12.0 Medium Sand 3.7 Fine Sand 35.0 Silt 39,0 10.2 Clay

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1715-1

Sdg Number: A0I240563

Client Sample ID:

L7945 FPS10-010

Lab Sample ID:

200-1715-1

Client Matrix:

Solid

D422 Grain Size

Date Sampled: 09/22/2010 1235

Date Received: 09/25/2010 0930

Method:

D422

Analysis Batch: 200-7139

Instrument ID:

D422_import

Preparation:

Lab File ID:

200-1715-B-1.txt

N/A

Initial Weight/Volume:

117.78 g

Dilution:

Clay

1.0

Final Weight/Volume:

Date Analyzed: Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Analyte Gravel (O,D) Sand 67.2 12.4 Coarse Sand 10.0 Medium Sand Fine Sand 44.8 28.1 732.8 Silt

09/27/2010 1150

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1715-1

Sdg Number: A0I240563

Client Sample ID:

L7963 FPS 10-011

Lab Sample ID:

200-1715-2

Client Matrix:

Solid

Date Sampled: 09/22/2010 1535

Date Received: 09/25/2010 0930

D422 Grain Size

Method:

D422

Analysis Batch: 200-7139

Instrument ID:

D422_import

Preparation:

Lab File ID:

200-1715-B-2.txt

Dilution:

N/A 1.0

Initial Weight/Volume:

100.72 g

Date Analyzed:

09/27/2010 1230

Final Weight/Volume:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Analyte Gravel Sand

Coarse Sand Medium Sand Fine Sand Silt Clay

94 61.3 13.2 5,5 42.6

31.6

38.3

Client Sample ID: FPS10-DUP4

GC Semivolatiles

| Lot-Sample #: A | \NT300420_002 | Work Order # . | T.7 DNTY 1 7\T1 | Matrix SO |
|--------------------|---------------|-----------------------------|-----------------|----------------------|
| - | | | | Mactia BO |
| Date Sampled: 0 | | | | |
| Prep Date: 1 | 10/09/10 | Analysis Date: | 10/12/10 | |
| Prep Batch #: 0 | 282010 | | | |
| Dilution Factor: 1 | LO | <pre>Initial Wgt/Vol:</pre> | 30.1 g | Final Wgt/Vol: 10 mL |
| % Moisture: 2 | 27 | Method: | SW846 8081 | В |
| | | | | |
| | | • | REPORTING | |
| PARAMETER | | RESULT | LIMIT | UNITS |
| Mirex | | 1100 J | 45 | ug/kg |
| | | PERCENT | RECOVERY | |
| SURROGATE | | RECOVERY | LIMITS | |
| Tetrachloro-m-xyle | ene | 3560 DIL,* | (31 - 131) | • |
| Decachlorobiphenyl | L | 114 DIL | (18 - 145) | |
| (-) | | | | |

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-013

GC Semivolatiles

| Lot-Sample #: A0I300420-004 | Work Order #: | L7PN31AE | Matrix : SO |
|-----------------------------|------------------|------------|----------------------|
| Date Sampled: 09/28/10 09:5 | 5 Date Received: | 09/30/10 | |
| Prep Date: 10/09/10 | Analysis Date: | 10/12/10 | |
| Prep Batch #: 0282010 | | | |
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.04 g | Final Wgt/Vol: 10 mL |
| % Moisture: 37 | Method: | SW846 8081 | В |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 690 J | 53 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 1890 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 66 DIL | (18 - 145) | |
| NOTE (S): | | | |

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-014

GC Semivolatiles

| Lot-Sample #: A0I300420-007 | Work Order #: | L7PPM1AE | Matrix \$0 |
|------------------------------|-----------------------------|-------------|----------------------|
| Date Sampled: 09/28/10 11:15 | Date Received: | 09/30/10 | |
| Prep Date: 10/09/10 | Analysis Date: | 10/12/10 | |
| Prep Batch #: 0282010 | | | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.01 g | Final Wgt/Vol: 10 mL |
| % Moisture: 32 | Method: | SW846 8081B | ı |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 750 | 49 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 72 DIL | (31 - 131) | |
| Decachlorobiphenyl | 101 DIL | (18 - 145) | |
| NOTE(S): | | | |

 $\label{eq:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-015

GC Semivolatiles

| Lot-Sample #: A0I300420-010 Date Sampled: 09/28/10 12:4 Prep Date: 10/09/10 Prep Batch #: 0282010 | ** | 09/30/10 | Matrix SO |
|---|-----------------------------|-------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.02 g | Final Wgt/Vol: 10 mL |
| % Moisture: 42 | Method: | SW846 8081B | |
| PARAMETER Mirex | RESULT | | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 2290 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 94 DIL | (18 - 145) | |
| | | | |

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

 $[\]label{eq:def:DIL} \textbf{DIL.} \textbf{ The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-016

GC Semivolatiles

| Lot-Sample #: A0I300420-013 Date Sampled: 09/28/10 14:55 Prep Date: 10/09/10 Prep Batch #: 0282010 | | 09/30/10 | Matrix: SO |
|--|-----------------------------|-------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.09 g | Final Wgt/Vol: 10 mL |
| % Moisture: 35 | Method: | SW846 8081B | |
| PARAMETER Mirex | RESULT 880 J | | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 1470 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 105 DIL | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes. * Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-017

GC Semivolatiles

| Lot-Sample #: A0I300420-01 Date Sampled: 09/28/10 16: Prep Date: 10/09/10 Prep Batch #: 0282010 | | 09/30/10 | Matrix SO |
|---|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.08 g | Final Wgt/Vol: 10 mL |
| % Moisture: 30 | Method: | SW846 8081 | В |
| PARAMETER Mirex | - RESULT | REPORTING LIMIT 47 | UNITS ug/kg |
| | PERCENT | REÇOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 925 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 122 DIL | (18 - 145) | |
| NOTE: (C) | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-018

GC Semivolatiles

| Lot-Sample #: A0I300420-019 Date Sampled: 09/29/10 10:3 Prep Date: 10/09/10 Prep Batch #: 0282010 | ** | 09/30/10 | Matrix SO |
|---|------------------|------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.01 q | Final Wqt/Vol: 10 mL |
| % Moisture: 22 | Method: | _ | → • |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 170 | 42 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 126 DIL | (31 - 131) | |
| Decachlorobipheny1 | 136 DIL | (18 - 145) | |
| MOTE(C). | | | • |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-DUP5

GC Semivolatiles

| Lot-Sample #: A0I300420-020 | Work Order #: | L7PQM1AD | Matrix SO |
|------------------------------|-----------------------------|------------|----------------------|
| Date Sampled: 09/29/10 10:35 | Date Received: | 09/30/10 | |
| Prep Date: 10/09/10 | Analysis Date | 10/12/10 | |
| Prep Batch #: 0282010 | | | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.02 g | Final Wgt/Vol: 10 mL |
| % Moisture: 22 | Method: | SW846 8081 | 3 |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 230 J | 43 | ug/kg |
| • | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 167 DIL,* | (31 - 131) | • |
| Decachlorobiphenyl | 101 DIL | (18 - 145) | |
| | | | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-019

GC Semivolatiles

| Lot-Sample #: A0I300420-023 Date Sampled: 09/29/10 12:20 | | | Matrix : SO |
|--|---------------------|--------------------|----------------------|
| Prep Date: 10/09/10 | Analysis Date: | | |
| - | Analysis Date: | 10/12/10 | |
| Prep Batch #: 0282010 | | | |
| Dilution Factor: 10 | Initial Wgt/Vol: | ~ | Final Wgt/Vol: 10 mL |
| % Moisture: 21 | Method: | SW846 8081E | 3 |
| PARAMETER | RESULT | | <u>UNITS</u> |
| Mirex | 680 | 42 | ug/kg |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 107 DIL | (31 - 131) | |
| Decachlorobiphenyl | 81 DIL | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: FPS10-020

GC Semivolatiles

| Lot-Sample #: A0I300420-026 | Work Order #: | L7PRK1AE | Matrix SO |
|------------------------------|-----------------------------|------------|----------------------|
| Date Sampled: 09/29/10 13:45 | Date Received: | 09/30/10 | |
| Prep Date: 10/09/10 | Analysis Date: | 10/12/10 | |
| Prep Batch #: 0282010 | | | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.07 g | Final Wgt/Vol: 10 mL |
| % Moisture: 25 | Method: | SW846 8081 | В |
| | • | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 1300 | 44 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 52 DIL | (31 - 131) | |
| Decachlorobiphenyl | 124 DIL | (18 - 145) | |
| NIOTE (C). | | | |

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: FPS10-021

GC Semivolatiles

| Lot-Sample #: A Date Sampled: 0 Prep Date: 1 Prep Batch #: 0 | 09/29/10 15:00 10/09/10 | | 09/30/10 | Matrix: SO |
|--|----------------------------|-------------------------------------|----------------------------|----------------------|
| Dilution Factor: 1 % Moisture: 2 | 10 | <pre>Initial Wgt/Vol: Method:</pre> | _ | Final Wgt/Vol: 10 mL |
| PARAMETER Mirex | | RESULT 880 | REPORTING LIMIT 44 | UNITS ug/kg |
| SURROGATE Tetrachloro-m-xyle | ene | PERCENT RECOVERY 115 DIL | RECOVERY LIMITS (31 - 131) | 5 . 2 |
| Decachlorobiphenyl | 1 | 109 DIL | (18 - 145) | |

 $\label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-022

GC Semivolatiles

| Lot-Sample #: A0I300420-032 Date Sampled: 09/29/10 17:29 Prep Date: 10/09/10 Prep Batch #: 0282010 | | 09/30/10 | Matrix: SO |
|--|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.01 g | Final Wgt/Vol: 10 mL |
| % Moisture: 19 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 41 | UNITS uq/kq |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 115 DIL | (31 - 131) | |
| Decachlorobiphenyl | 83 DIP | (18 - 145) | |
| | | | |

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-DUP4

General Chemistry

Lot-Sample #...: A0I300420-002

Work Order #...: L7PNX

Matrix....: SO

Date Sampled...: 09/28/10 09:12 Date Received..: 09/30/10

% Moisture....: 27

| PARAMETER Percent Solids | RESULT 72.7 | RL 10.0 lution Fact | UNITS | METHOD MCAWW 160.3 MOD | PREPARATION- ANALYSIS DATE 10/07-10/08/10 | PREP BATCH # 0280165 |
|--------------------------|-------------|---------------------------|-------|------------------------|---|----------------------------|
| Total Organic Carbon | 8700 | 1400 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: FPS10-013

General Chemistry

Lot-Sample #...: A0I300420-004

Work Order #...: L7PN3

Matrix..... SO

Date Sampled...: 09/28/10 09:55 Date Received..: 09/30/10
% Moisture....: 37

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION - ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|------------|-------------------|--------------------------------|-----------------|
| Percent Solids | 62.6 | 10.0 ition Facto | 왕 or: 1 | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 8100 | 1600 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |
| · | Dil | ution Facto | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-014

General Chemistry

Lot-Sample #...: A01300420-007

Work Order #...: L7PPM Date Sampled...: 09/28/10 11:15 Date Received..: 09/30/10

Matrix....: SO

% Moisture....: 32

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|-------------|-------|-------------------|-------------------------------|-----------------|
| Percent Solids | 67.9 | 10.0 | * | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| | DII | reion ruce | ,1. 1 | | | |
| Total Organic Carbon | 2800 | 1500 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |
| | Dilu | ıtion Facto | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-015

General Chemistry

Lot-Sample #...: A0I300420-010 Wor

Work Order #...: L7PPV

Matrix..... SO

Date Sampled...: 09/28/10 12:45 Date Received..: 09/30/10 % Moisture....: 42

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 58.1 | 10.0 tion Facto | % or; 1 | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 4600 | 1700 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-016

General Chemistry

Lot-Sample #...: A0I300420-013 Work Order #...: L7PP3

Matrix..... SO

Date Sampled...: 09/28/10 14:55 Date Received..: 09/30/10

% Moisture....: 35

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 65.4 | 10.0 ution Facto | ቄ or: 1 | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 4800 | 1500 ution Facto | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-017

General Chemistry

Lot-Sample #...: A0I300420-016 Work Order #...: L7PQA Matrix

Matrix....: SO

Date Sampled...: 09/28/10 16:05 Date Received..: 09/30/10

% Moisture....: 30

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|------------------|---------------------|-------------------|-------------------|-------------------------------|--------------|
| Percent Solids | 69.9 Dilu | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 4300 | 1400 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-018

General Chemistry

Lot-Sample #...: A0I300420-019 Work Order

Work Order #...: L7PQL Matrix.....: SO

Date Sampled...: 09/29/10 10:35 Date Received..: 09/30/10

% Moisture....: 22

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 78.2 Dil | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 3500 | 1300 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |
| | Dil | ution Facto | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-DUP5

General Chemistry

Matrix..... SO

Lot-Sample #...: A0I300420-020 Work Order #...: L7PQM

Date Sampled...: 09/29/10 10:35 Date Received..: 09/30/10

% Moisture....: 22

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 77.6 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 4700 | 1300 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |
| | Dilı | ution Facto | or: 1 | , | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-019

General Chemistry

Lot-Sample #...: A0I300420-023

Work Order #...: L7PQ1 Date Sampled...: 09/29/10 12:20 Date Received..: 09/30/10

Matrix..... SO

% Moisture....: 21

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION - ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-------------------|-------------------|--------------------------------|-----------------|
| Percent Solids | 79.1 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 5000 | 1300 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-020

General Chemistry

Matrix..... SO

Lot-Sample #...: A0I300420-026 Work Order #...: L7PRK

Date Sampled...: 09/29/10 13:45 Date Received..: 09/30/10

% Moisture....: 25

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 75.4 | 10.0 stion Facto | % or: 1 | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 4600 | 1300 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-021

General Chemistry

Lot-Sample #...: A0I300420-029

Work Order #...: L7PRR

Matrix..... SO

Date Sampled...: 09/29/10 15:00 Date Received..: 09/30/10

% Moisture....: 25

| PARAMETER | RESULT | RĹ | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 74.6 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 4900 | 1300 ution Facto | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-022

General Chemistry

Lot-Sample #...: A0I300420-032

Work Order #...: L7PRW

Matrix..... SO

Date Sampled...: 09/29/10 17:25 Date Received..: 09/30/10

% Moisture....: 19

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 81.2 | 10.0 ution Facto | % or: l | MCAWW 160.3 MOD | 10/07-10/08/10 | 0280165 |
| Total Organic Carbon | 3900 | 1200 | mg/kg | MSA WALKLRY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

RL Reporting Limit

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-013

Lab Sample ID:

200-1790-1

Client Matrix:

Solid

Date Sampled: 09/28/2010 0955

Date Received: 10/01/2010 1030

D422 Grain Size

Method:

D422

Analysis Batch: 200-7433

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1790-B-1.txt

Dilution:

Initial Weight/Volume:

136.25 g

Date Analyzed:

1.0

10/01/2010 2020

Final Weight/Volume:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Analyte Fine Sand Gravel Coarse Sand Medium Sand Sand Fines

24.7 0.5 0.4 2.1

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-014

Lab Sample ID:

200-1790-2

10/01/2010 2023

DryWt Corrected: N

Client Matrix:

Solid

Date Sampled: 09/28/2010 1115

Date Received: 10/01/2010 1030

D422 Grain Size

Method:

D422

Analysis Batch: 200-7433

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1790-B-2,txt

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume:

146.48 g

Date Analyzed:

Date Prepared:

Result (%)

30.4

Qualifier

NONE

NONE

Analyte Fine Sand Gravet Coarse Sand Medium Sand Sand Fines

(0.4) 0.1 33.1 66.5

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-016

Lab Sample ID:

200-1790-3

Client Matrix:

Solid

Date Sampled: 09/28/2010 1455 Date Received: 10/01/2010 1030

D422 Grain Size

Method:

D422

Analysis Batch: 200-7433

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1790-B-3,txt

Dilution:

Initial Weight/Volume:

149.26 g

Date Analyzed:

1.0

10/01/2010 2026

Final Weight/Volume:

Date Prepared:

Analyte

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Fine Sand Gravel Coarse Sand Medium Sand Sand **Fines**

27.6 (0.0)

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-017

Lab Sample ID:

200-1790-4

Client Matrix:

Solid

Date Sampled: 09/28/2010 1605

Date Received: 10/01/2010 1030

D422 Grain Size

Method:

D422

Analysis Batch: 200-7433

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1790-B-4.txt

Dilution:

Initial Weight/Volume:

136.84 g

Date Analyzed:

1.0

10/01/2010 2029

Final Weight/Volume:

Date Prepared:

Analyte

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Fine Sand Gravel Coarse Sand Medium Sand Sand Fines

(aa) 0.2 <u>3.4</u> 41,8

38.2

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-018

Lab Sample ID:

200-1790-5

10/01/2010 2032

Client Matrix:

Solid

Date Sampled: 09/29/2010 1035

Date Received: 10/01/2010 1030

D422 Grain Size

Method:

D422

Analysis Batch: 200-7433

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1790-B-5,txt

Dilution:

Initial Weight/Volume:

151.52 g

Date Analyzed:

1.0

Final Weight/Volume:

Date Prepared:

Analyte

DryWt Corrected; N

Result (%)

Qualifier

NONE

NONE

Fine Sand Gravel Coarse Sand Medium Sand Sand Fines

44.7 (0.8) 0.7 7.8 53.2

46.0

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-019

Lab Sample ID:

200-1790-6

10/01/2010 2035

Client Matrix:

Solid

Date Sampled: 09/29/2010 1220

Date Received: 10/01/2010 1030

D422 Grain Size

Method:

D422

Analysis Batch: 200-7433

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1790-D-6.txt

Dilution:

Initial Weight/Volume:

1.0

Final Weight/Volume:

152.03 g

Date Analyzed: Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Analyte Fine Sand Gravel Coarse Sand Medium Sand Sand Fines

33.0 (6.7)

6.4

Page 18 of 78

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-020

Lab Sample ID:

200-1790-7

Client Matrix:

Solid

Date Sampled: 09/29/2010 1345

Date Received: 10/01/2010 1030

D422 Grain Size

Method:

D422

Analysis Batch: 200-7433

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1790-B-7.txt

NONE

Dilution:

1.0

Initial Weight/Volume:

Qualifier

162.61 g

Date Analyzed:

10/01/2010 2050

DryWt Corrected: N

Final Weight/Volume:

NONE

Date Prepared:

Analyte
Fine Sand
Gravel
Coarse Sand
Medium Sand
Sand
Fines

Result (%) 34.1 0,0

0.0

36.1 63.9

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-021

Lab Sample ID:

200-1790-8

Client Matrix:

Solid

Date Sampled: 09/29/2010 1500

Date Received: 10/01/2010 1030

D422 Grain Size

Method:

D422

Analysis Batch: 200-7433

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1790-B-8.txt

Dilution:

NONE

1.0

Initial Weight/Volume;

163.03 g

Date Analyzed:

10/01/2010 2052

Qualifier

Final Weight/Volume:

NONE

Date Prepared:

DryWt Corrected: N Result (%) Analyte Fine Sand 31.7 (0.0) Gravel Coarse Sand 0.1 Medium Sand Sand Fines

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-022

Lab Sample ID:

200-1790-9

Client Matrix:

Solid

Date Sampled: 09/29/2010 1725 Date Received: 10/01/2010 1030

D422 Grain Size

Method:

D422

Analysis Batch: 200-7433

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1790-B-9.txt

Dilution:

1.0

Initial Weight/Volume:

182.84 g

Date Analyzed:

10/01/2010 2055

Final Weight/Volume:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Analyte Fine Sand Gravel Coarse Sand Medium Sand Sand **Fines**

3.2

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1790-1

Sdg Number: A0I300420

Client Sample ID:

FPS10-015

Lab Sample ID:

200-1806-1

Client Matrix:

Solid

Date Sampled: 09/28/2010 1245

Date Received: 10/02/2010 1100

D422 Grain Size

Method:

D422

Analysis Batch: 200-7431

Instrument ID:

D422_import

Preparation:

N/A

200-1806-B-1,txt

NONE

Lab File ID:

Qualifier

Dilution:

1.0

Initial Weight/Volume:

98.18 g

Date Analyzed:

Date Prepared:

10/04/2010 1011

Final Weight/Volume:

NONE

DryWt Corrected: N Result (%) Analyte Fine Sand 28.7 Gravel (0.0) Coarse Sand 0.4 Medium Sand Sand (30.B) **Fines**

Client Sample ID: FPS10-023

GC Semivolatiles

| Lot-Sample #: A0J040425-004 Date Sampled: 09/30/10 09:5 Prep Date: 10/06/10 Prep Batch #: 0279070 | | 10/02/10 | Matrix SO |
|---|------------------|--------------------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.12 g | Final Wgt/Vol: 10 mL |
| % Moisture: 41 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 130 | REPORTING LIMIT 56 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 101 DIL | (31 - 131) | |
| Decachlorobiphenyl | 112 DIL | (18 - 145) | |
| | | | · |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-024

GC Semivolatiles

| Lot-Sample #: A0J040425-007 Date Sampled: 09/30/10 11:09 Prep Date: 10/06/10 Prep Batch #: 0279070 | | 10/02/10 | Matrix: SO |
|--|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30,05 g | Final Wgt/Vol: 10 mL |
| % Moisture: 32 | Method: | SW846 8081 | 3 |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 48 | UNITS ug/kg |
| Mirex | 180 | 48 | ug/kg |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 134 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 101 DIL | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-027

GC Semivolatiles

| Lot-Sample #: A0J040425-016 Date Sampled: 09/30/10 14:55 Prep Date: 10/06/10 Prep Batch #: 0279070 | | 10/02/10 | Matrix SO |
|--|---------------------------------|---|----------------------|
| Dilution Factor: 10 | Initial Wqt/Vol: | 30.01 q | Final Wqt/Vol: 10 mL |
| % Moisture: 43 | Method: | | |
| PARAMETER Mirex | RESULT | | UNITSug/kg |
| SURROGATE Tetrachloro-m-xylene Decachlorobiphenyl | PERCENT RECOVERY 88 DIL 101 DIL | RECOVERY <u>LIMITS</u> (31 - 131) (18 - 145) | |
| pecucino objeticity i | 101 211 | (10 110) | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-028

GC Semivolatiles

| Lot-Sample #: A0J040425-0 Date Sampled: 09/30/10 10 Prep Date: 10/06/10 Prep Batch #: 0279070 | | 10/02/10 | Matrix: SO |
|---|------------------|---------------|----------------------|
| Dilution Factor: 1 | Initial Wgt/Vol: | : 30.15 g | Final Wgt/Vol: 10 mL |
| % Moisture: 46 | Method | : SW846 8081B | <u>-</u> |
| PARAMETER Mirex | RESULT | | NITS ng/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 78 | (31 - 131) | |
| Decachlorobiphenyl | 74 | (18 - 145) | |
| Morro (a) | | | |

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-029

GC Semivolatiles

| Lot-Sample #: A0J040425-022 Date Sampled: 10/01/10 10:20 Prep Date: 10/06/10 Prep Batch #: 0279070 | | 10/02/10 | Matrix SO |
|--|-----------------------------|-------------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.09 g | Final Wgt/Vol: 10 mL |
| % Moisture: 19 | Method: | SW846 8081 | В . |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 41 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 108 DIL | $\overline{(31 - 131)}$ | |
| Decachlorobiphenyl | 108 DIL | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-030

GC Semivolatiles

| Lot-Sample #: A0J040425-025 Date Sampled: 10/01/10 11:45 Prep Date: 10/06/10 Prep Batch #: 0279070 | · · | 10/02/10 | Matrix SO |
|--|-----------------------------|----------------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.08 g | Final Wgt/Vol: 10 mL |
| % Moisture: 27 | Method: | _ | - , |
| PARAMETER Mirex | RESULT | | UNITS ug/kg |
| SURROGATE Tetrachloro-m-xylene | PERCENT RECOVERY 66 DIL | RECOVERY LIMITS (31 - 131) | |
| Decachlorobiphenyl | 106 DIL | (18 - 145) | |
| NOTE (S). | | | |

 $[\]label{eq:DIL} \textbf{DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-DUP7

GC Semivolatiles

| Lot-Sample #: A0J040425-02 Date Sampled: 10/01/10 11: Prep Date: 10/06/10 Prep Batch #: 0279070 | | 10/02/10 | Matrix SO |
|---|------------------|--------------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.08 g | Final Wgt/Vol: 10 mL |
| % Moisture: 25 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 830 J | REPORTING LIMIT 44 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 69 DIL | (31 - 131) | |
| ${	t Decachlorobiphenyl}$ | 112 DIL | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes." Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-031

GC Semivolatiles

| Lot-Sample #: A0J040425-029 Date Sampled: 10/01/10 13:05 Prep Date: 10/06/10 Prep Batch #: 0279070 | | 10/02/10 | Matrix: SO |
|--|------------------|--------------------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.1 g | Final Wqt/Vol: 10 mL |
| % Moisture: 24 | Method | SW846 8081 | 3 |
| PARAMETER Mirex | RESULT 420 J | REPORTING LIMIT 44 | UNITSug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 365 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 70 DIL | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-032

GC Semivolatiles

| Lot-Sample #: A0J040425-032 Date Sampled: 10/01/10 14:0 Prep Date: 10/06/10 Prep Batch #: 0279070 | | 10/02/10 | Matrix SO |
|---|------------------|--------------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.11 g | Final Wgt/Vol: 10 mL |
| % Moisture: 21 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 740 | REPORTING LIMIT 42 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 93 DIL | (31 - 131) | |
| Decachlorobiphenyl | 92 DIL | (18 - 145) | |
| | | | |

<u>NOTE (S) : _____</u>

Results and reporting limits have been adjusted for dry weight.

 $[\]label{eq:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: FPS10-033

GC Semivolatiles

| Lot-Sample #: A0J040425-035 Date Sampled: 10/01/10 15:50 Prep Date: 10/06/10 | ** | 10/02/10 | Matrix: SO |
|--|-----------------------------|--------------------|----------------------|
| Prep Batch #: 0279070 | Analysis Date: | 10/08/10 | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.03 g | Final Wgt/Vol: 10 mL |
| % Moisture: 27 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 590 | REPORTING LIMIT 45 | UNITSuq/kq |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 97 DIL | (31 - 131) | |
| Decachlorobiphenyl | 76 DIL | (18 - 145) | |
| NOTE (S). | | | |

 $\label{eq:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-034

GC Semivolatiles

| Lot-Sample #: A0J040425-038 Date Sampled: 10/01/10 17:10 Prep Date: 10/06/10 Prep Batch #: 0279070 | | 10/02/10 | Matrix : SO |
|---|-----------------------------|-------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.02 g | Final Wgt/Vol: 10 mL |
| % Moisture: 22 | Method: | SW846 8081B | |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT U | NITS |
| Mirex | 1100 | 42 | ng/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 99 DIL | (31 - 131) | |
| Decachlorobiphenyl | 75 DIL | (18 - 145) | |
| NOTE (S): | | | · |

 $\label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Client Sample ID: FPS10-023

General Chemistry

Lot-Sample #...: A0J040425-004 Work Order #...: L7XGD Matrix.....: S0
Date Sampled...: 09/30/10 09:55 Date Received..: 10/02/10

% Moisture....: 41

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 58.8
 10.0
 %
 MCAWW 160.3 MOD
 10/06-10/07/10
 0279279

Dilution Factor: 1

Total Organic 25000 3400 mg/kg MSA WALKLEY-BLACK 10/08/10 0281055 Carbon

Dilution Factor: 2

NOTE(S):

Client Sample ID: FPS10-024

General Chemistry

Lot-Sample #...: A0J040425-007 Work Order #...: L7XHH

Matrix..... SO

Date Sampled...: 09/30/10 11:05 Date Received..: 10/02/10

% Moisture....: 32

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 68.4 | 10.0 ution Fact | % or; 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279279 |
| Total Organic Carbon | 28000 | 2900 | mg/kg | MSA WALKLEY-BLACK | 10/08/10 | 0281055 |
| | Dil | ution Fact | or: 2 | | • | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-027

General Chemistry

Lot-Sample #...: A0J040425-016

Work Order #...: L7XH4

Matrix....: SO

Date Sampled...: 09/30/10 14:55 Date Received..: 10/02/10

% Moisture....: 43

| PARAMETER | RESULT | RL_ | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|------------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 56.8 Dil | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279279 |
| Total Organic Carbon | 29000 Dil | 3500 ution Fact | mg/kg | MSA WALKLEY-BLACK | 10/08/10 | 0281055 |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-028

General Chemistry

Lot-Sample #...: A0J040425-019 Work Order #...: L7XH9 Matrix.....: S0

Date Sampled...: 09/30/10 16:30 Date Received..: 10/02/10

% Moisture....: 46

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 53.7 Dil | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279279 |
| Total Organic Carbon | 5600 | 3700 ution Fact | mg/kg | MSA WALKLEY-BLACK | 10/08/10 | 0281055 |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-029

General Chemistry

Lot-Sample #...: A0J040425-022 Work Order

Work Order #...: L7XJE

Matrix..... SO

Date Sampled...: 10/01/10 10:20 Date Received..: 10/02/10

% Moisture....: 19

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 80.7 | 10.0 ation Facto | % or: 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279279 |
| Total Organic Carbon | 22000 | 2500 | mg/kg | MSA WALKLEY-BLACK | 10/08/10 | 0281055 |
| Calabon | Dil | ntion Facto | or: 2 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-030

General Chemistry

Lot-Sample #...: A0J040425-025

Work Order #...: L7XJH

Matrix....: SO

Date Sampled...: 10/01/10 11:45 Date Received..: 10/02/10

% Moisture....: 27

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|------------|-------|-------------------|-------------------------------|-----------------|
| Percent Solids | 73.5 | 10.0 | % | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279279 |
| | Di.] | ution Fact | or: 1 | | | |
| Total Organic Carbon | 18000 | 2700 | mg/kg | MSA WALKLEY-BLACK | 10/08/10 | 0281055 |
| | Dil | ution Fact | or: 2 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-DUP7

General Chemistry

Lot-Sample #...: A0J040425-026 Work Order #...: L7XJJ Matrix.....: S0

Date Sampled...: 10/01/10 11:45 Date Received..: 10/02/10

% Moisture....: 25

| PARAMETER | RESULT | <u>RL</u> | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|-------------|------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 75.0 | 10.0 | % r: 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279279 |
| Total Organic Carbon | 21000 | 2700 | mg/kg | MSA WALKLEY-BLACK | 10/08/10 | 0281055 |
| | Dilı | ıtion Facto | r: 2 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-031

General Chemistry

Matrix..... SO

Lot-Sample #...: A0J040425-029 Work Order #...: L7XJ2

Date Sampled...: 10/01/10 13:05 Date Received..: 10/02/10

% Moisture....: 24

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|---------------|-------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 75.5 | 10.0 | 원 or: 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279279 |
| | 511 | descon ruce | 01. 1 | | | |
| Total Organic Carbon | 270 00 | 2600 | mg/kg | MSA WALKLEY-BLACK | 10/08/10 | 0281055 |
| | Dil | ution Fact | or; 2 | | ` | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: FPS10-032

General Chemistry

Lot-Sample #...: A0J040425-032

Work Order #...: L7XKK Date Sampled...: 10/01/10 14:05 Date Received..: 10/02/10 Matrix..... SO

% Moisture....: 21

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 79.1 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279279 |
| Total Organic Carbon | 20000 | 2500 | mg/kg | MSA WALKLEY-BLACK | 10/08/10 | 0281055 |

NOTE(S):

RL. Reporting Limit

Client Sample ID: FPS10-033

General Chemistry

Lot-Sample #...: A0J040425-035 Work Order #...: L7XKT Matrix.....: S0

Date Sampled...: 10/01/10 15:50 Date Received..: 10/02/10

% Moisture....: 27

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION - ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|-------------|-------------|-------------------|--------------------------------|-----------------|
| Percent Solids | 72.7 | 10.0 | \$ or. 1 | MCAWW 160.3 MOD | 10/06-10/07/10 | 0279279 |
| | DII | ucion Facto | JI; I | | | |
| Total Organic Carbon | 30000 | 2700 | mg/kg | MSA WALKLEY-BLACK | 10/08/10 | 0281055 |
| | Dil | ution Fact | or; 2 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-034

General Chemistry

Lot-Sample #...: A0J040425-038 Work Order #...: L7XK5 Matrix.....: S0
Date Sampled...: 10/01/10 17:10 Date Received..: 10/02/10

% Moisture....: 22

PREPARATION-PREP PARAMETER RESULT RLUNITS METHOD ANALYSIS DATE BATCH # Percent Solids 77.7 10.0 MCAWW 160.3 MOD 10/06-10/07/10 0279279 Dilution Factor: 1 Total Organic 26000 2600 MSA WALKLEY-BLACK 10/08/10 0281055 mg/kg Carbon Dilution Factor: 2

NOTE(S):

RL Reporting Limit

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FP\$10-023

Lab Sample ID:

200-1816-1

Client Matrix:

Solid

Date Sampled: 09/30/2010 0955

Date Received: 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1816-B-1.txt

Dilution:

Initial Weight/Volume:

109.54 g

Date Analyzed:

1.0

10/05/2010 1409

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|---|-------------------|-----------|------|--|
| Gravel | TO THE OWNER, MARKET VIEW AND THE PARTY AND | 0.8 | | | Alder Affordation and a second a |
| Sand | | 39.9 | | | |
| Coarse Sand | | 0.2 | | | |
| Medium Sand | | 2.9 | | | |
| Fine Sand | | 36.8 ₁ | | | |
| Silt | | 50.4 (0.) | • | | |
| Clay | | 6.8 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FPS10-024

Lab Sample ID:

200-1816-2

10/05/2010 1413

Client Matrix:

Solid

Date Sampled: 09/30/2010 1105 Date Received: 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1816-B-2.txt

Dilution:

Initial Weight/Volume:

109,24 g

Date Analyzed:

1.0

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|------|
| Gravel | | 0.0 | | | #W-E |
| Sand | | 31.6 | | | |
| Coarse Sand | | 0.2 | | | |
| Medium Sand | | 2.2 | | | |
| Fine Sand | | 29.2 | | | |
| Silt | | 54.0 | | | |
| Clay | | 14.4 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FPS10-027

Lab Sample ID:

200-1816-3

Client Matrix:

Solid

10/05/2010 1416

Date Sampled: 09/30/2010 1455 Date Received: 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1816-B-3.txt

Dilution:

Initial Weight/Volume:

105.14 g

Date Analyzed:

1.0

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | | Qualifier | NONE | NONE |
|-------------|--|------------|-----|-----------|--|---|
| Gravel | AVA TO THE TOTAL PROPERTY OF THE PARTY OF TH | 0.0 | | | And the second s | Annual Comment of the second distribution of the property of the second |
| Sand | | 24.9 | | | | |
| Coarse Sand | | 0.1 | | | | |
| Medium Sand | | 1.5 | | | | |
| Fine Sand | | 23.3 | | | | |
| Silt | | 61.4 | 260 | | | |
| Clay | | 13.7 | /X) | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FPS10-028

Lab Sample ID:

200-1816-4

10/05/2010 1419

Client Matrix:

Solid

Date Sampled: 09/30/2010 1630

Date Received; 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

N/A

10.6

Dilution:

Lab File ID:

200-1816-B-4.txt

NONE

Clay

Initial Weight/Volume:

Qualifier

103.84 g

1.0

Final Weight/Volume:

NONE

Date Analyzed: Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | |
|-------------|--------------------|------------|---|
| Gravel | | 0.0 | |
| Sand | | 26,7 | |
| Coarse Sand | | 0.1 | |
| Medium Sand | | 1.9 | |
| Fine Sand | | 24.7 | |
| Silt | | 62.7 | Λ |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FP\$10-029

Lab Sample ID:

200-1816-5

10/05/2010 1422

Client Matrix:

Solid

Date Sampled: 10/01/2010 1020

Date Received: 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1816-B-5.txt

Dilution:

1.0

Initial Weight/Volume:

104.18 g

Final Weight/Volume:

Date Analyzed: Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|---|------------|-----------|------|------|
| Gravel | and Market (1907) 1907 (1907) | 0.9 | | | |
| Sand | | 23.3 | | | |
| Coarse Sand | | 0.1 | | | |
| Medium Sand | | 1.3 | | | |
| Fine Sand | | 21.9 | | | |
| Silt | | 66.0 | | | |
| Clay | | 9.8 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FPS10-030

Lab Sample ID:

200-1816-6

Client Matrix:

Solid

Date Sampled: 10/01/2010 1145

Date Received: 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

N/A

Lab Fife ID:

200-1816-B-6.txt

NONE

Dilution:

Initial Weight/Volume:

Qualifier

101.03 g

Date Analyzed:

1.0

10/05/2010 1424

Final Weight/Volume:

NONE

Date Prepared:

Result (%) DryWt Corrected: N Analyte Gravel (2.9)Sand 34.2 0.2 Coarse Sand 2.0 Medium Sand Fine Sand 32.0 ^{51,0} 7 Silt Clay

62.9

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FPS10-031

Lab Sample ID:

200-1816-7

Client Matrix:

Solid

10/05/2010 1429

Date Sampled: 10/01/2010 1305 Date Received: 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

Lab File ID:

200-1816-B-7.txt

N/A

Dilution:

Initial Weight/Volume:

104.28 g

Date Analyzed:

1.0

Final Weight/Volume:

| Analyte | DryWt Corrected; N | Result (%) | | Qualifier | NONE | NONE |
|-------------|--------------------|------------|--|--|------|--|
| Gravel | | 0,0 | The state of the s | Control of the contro | | - West and the second s |
| Sand | | 15.1 | | | | |
| Coarse Sand | | 0,1 | | | | |
| Medium Sand | | 0.4 | | | | |
| Fine Sand | | 14.6 | , 🔍 | | | |
| Şilt | | 73.4 | <i>لالا</i> ، ۱ | | | |
| Clay | | 11.5 | · · | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FPS10-032

Lab Sample ID:

200-1816-8

10/05/2010 1431

Client Matrix:

Solid

Date Sampled: 10/01/2010 1405

Date Received: 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1816-D-8.txt

Dilution:

Initial Weight/Volume:

104.88 g

1.0

Final Weight/Volume:

Date Analyzed: Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--|------------|-----------|------|------|
| Gravel | AAV 15.00 A SALES SELECT A SALESSA A SALES | 0.0 | | | 7 |
| Sand | | 41.4 | | | |
| Coarse Sand | | 0.0 | | | |
| Medium Sand | | 1.2 | | | |
| Fine Sand | | 40.2 | | | |
| Silt | • | 50.8 / % | Q | | |
| Clay | | 7.8 م | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FPS10-033

Lab Sample ID:

200-1816-9

10/05/2010 1438

Client Matrix:

Solid

Date Sampled: 10/01/2010 1550

Date Received: 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1816-B-9.txt

Initial Weight/Volume:

104.65 g

Dilution:

Date Analyzed:

1.0

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qua | alifier NO | | NONE |
|-------------|--|------------|-----------|---|---|--|
| Gravel | TO A CONTROL OF THE STATE OF TH | 0.0 | | WART 17 TO \$1.70 M \$ 17 W | 995 (1982) - 1982 (1994) (1994) (1994) (1994) (1994) (1994) | ATTENNESS SOMMEN OF STREET, SECTION OF STREET, SECT |
| Sand | | 13.7 | | | | |
| Coarse Sand | | 0.1 | | | | |
| Medium Sand | | 0.6 | | | | |
| Fine Sand | | 13.0 | 0 | | | |
| Silt | | 74.6 | ΔO 1. (2) | | | |
| Clay | | 11.7 | 40. | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1816-1

Sdg Number: A0J040425

Client Sample ID:

FPS10-034

Lab Sample ID:

200-1816-10

10/05/2010 1441

Client Matrix:

Solid

Date Sampled: 10/01/2010 1710 Date Received: 10/05/2010 1020

D422 Grain Size

Method:

D422

Analysis Batch: 200-7549

Instrument ID:

D422_import

Preparation:

Lab File ID:

200-1816-B-10.txt

NONE

Dilution:

N/A

Final Weight/Volume:

NONE

1.0

Initial Weight/Volume:

Qualifier

103.08 g

Date Analyzed: Date Prepared:

| Analyte | DryWt Corrected: N | Result (9 | %) |
|-------------|--------------------|-----------|---|
| Gravel | | 0.0 | a i manda in manda in a da a da a da a da a da a da a |
| Sand | | 25.2 | |
| Coarse Sand | | 0.1 | |
| Medium Sand | | 0.5 | |
| Fine Sand | | 24.6 | ٦ |
| Silt | | 65.5 | 24.8 |
| Clay | | 9,3 | X |

Client Sample ID: FPS10-DUP8

GC Semivolatiles

| Lot-Sample #: A0J060517-002 Date Sampled: 10/02/10 09:55 Prep Date: 10/14/10 Prep Batch #: 0287028 | == | 10/05/10 | Matrix SO |
|--|------------------|-------------|----------------------|
| Dilution Factor: 10 | Initial Wqt/Vol: | 30.05 q | Final Wqt/Vol: 10 mL |
| % Moisture: 24 | Method: | SW846 8081B | 5 . |
| PARAMETER Mirex | RESULT 170 | | units ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 96 DIL | (31 - 131) | |
| Decachlorobiphenyl | 97 DIL | (18 - 145) | |
| NOVER (G). | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes. Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-035

GC Semivolatiles

| - | | Work Order #: | | Matri | ж so |
|-------------------|----------------|-----------------------------|------------|-------|----------------|
| Date Sampled: | 10/02/10 10:30 | Date Received: | 10/05/10 | | |
| Prep Date: | 10/14/10 | Analysis Date: | 10/17/10 | | |
| Prep Batch #: | 0287028 | | | | |
| Dilution Factor: | 10 | <pre>Initial Wgt/Vol:</pre> | 30.02 g | Final | Wgt/Vol: 10 mL |
| % Moisture: | 24 | Method: | SW846 8081 | В | |
| | | | | | |
| | | 4 | REPORTING | | |
| PARAMETER | | RESULT | LIMIT | UNITS | |
| Mirex | | 110 | 44 | ug/kg | |
| | | | | | |
| | | PERCENT | RECOVERY | | |
| SURROGATE | | RECOVERY | LIMITS | | |
| Tetrachloro-m-xy | ene | 120 DIL | (31 - 131) | | |
| Decachlorobipheny | /1 | 125 DIL | (18 - 145) | | |
| | | | | | |
| NOTE (S) - | | | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-036

GC Semivolatiles

| Lot-Sample #: A0J060517-007 | Work Order #: | L73G71AE | Matrix: SO |
|------------------------------|-----------------------------|------------|----------------------|
| Date Sampled: 10/02/10 12:00 | Date Received: | 10/05/10 | |
| Prep Date: 10/14/10 | Analysis Date: | 10/17/10 | |
| Prep Batch #: 0287028 | | | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.17 g | Final Wgt/Vol: 10 mL |
| % Moisture: 25 | Method: | SW846 8081 | В |
| | | | |
| • | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 790 丁 | 44 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 148 DIL,* | (31 - 131) | • |
| Decachlorobiphenyl | 152 DIL,* | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-037

GC Semivolatiles

| Lot-Sample #: A0J060517-010 Date Sampled: 10/02/10 13:10 | *- | | Matrix: SO |
|--|-----------------------------|------------|----------------------|
| Prep Date: 10/14/10 | Analysis Date: | • | |
| Prep Batch #: 0287028 | | | |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.11 g | Final Wgt/Vol: 10 mL |
| % Moisture: 28 | Method: | SW846 8081 | В |
| | | DEDODETNA | |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 440 J | 46 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 124 DIL | (31 - 131) | |
| Decachlorobiphenyl | 154 DIL,* | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-038

GC Semivolatiles

| Lot-Sample #: A0J060517-013 Date Sampled: 10/02/10 14:25 Prep Date: 10/14/10 Prep Batch #: 0287028 | | 10/05/10 | Matrix : SO |
|--|-----------------------------|------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.07 g | Final Wgt/Vol: 10 mL |
| % Moisture 15 | Method: | SW846 8081 | В |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 470 J | 39 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 116 DIL | (31 - 131) | |
| Decachlorobiphenyl | 160 DIL,* | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-039

GC Semivolatiles

| Lot-Sample #: A0J060517-016 Date Sampled: 10/03/10 10:50 Prep Date: 10/14/10 Prep Batch #: 0287028 | | 10/05/10 | Matrix SO |
|--|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.07 g | Final Wgt/Vol: 10 mL |
| % Moisture: 23 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 650 | REPORTING LIMIT 43 | UNITS ug/kg |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 111 DIL | (31 - 131) | |
| Decachlorobiphenyl | 123 DIL | (18 - 145) | |
| NOTE(S): | | | |

 $\label{eq:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-040

GC Semivolatiles

| Lot-Sample #: A0J060517-019 Date Sampled: 10/03/10 12:3 Prep Date: 10/14/10 Prep Batch #: 0287028 | | 10/05/10 | Matrix | : SO |
|---|-----------------------------|--------------------|--------|----------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.08 g | Final | Wgt/Vol: 10 mL |
| % Moisture: 26 | Method: | SW846 8081 | В | · |
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | |
| Mirex | 360 | 45 | ug/kg | |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | | |
| Tetrachloro-m-xylene | 118 DIL | (31 - 131) | | |
| Decachlorobiphenyl | 119 DIL | (18 - 145) | | |
| NOTE(S): | | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes,

Client Sample ID: FPS10-041

GC Semivolatiles

| Lot-Sample #: A0J060517-022 Date Sampled: 10/04/10 09:55 Prep Date: 10/14/10 Prep Batch #: 0287028 | | 10/05/10 | Matrix SO |
|--|-----------------------------|------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.01 g | Final Wgt/Vol: 10 mL |
| % Moisture: 37 | Method: | SW846 8081 | В |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 1100 | 53 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 123 DIL | (31 - 131) | |
| Decachlorobiphenyl | 149 DIL,* | (18 - 145) | |
| NOTE(S): | | | |

 $[\]label{eq:DIL} \textbf{DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-044

GC Semivolatiles

| Lot-Sample #: A0J060517-031 Date Sampled: 10/04/10 13:2 Prep Date: 10/14/10 Prep Batch #: 0287028 | | 10/05/10 | Matrix SO |
|---|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.07 g | Final Wgt/Vol: 10 mL |
| % Moisture: 43 | Method: | SW846 8081 | <u>-</u> . |
| PARAMETER Mirex | RESULT 670 J | REPORTING LIMIT 58 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 214 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 158 DIL,* | (18 - 145) | |
| NORTH (d) | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-DUP9

GC Semivolatiles

| Lot-Sample #: A0J060517-032 Date Sampled: 10/04/10 13:2 Prep Date: 10/14/10 Prep Batch #: 0287028 | | 10/05/10 | Matri | x: | SO |
|---|------------------|--------------------------|----------------|----------|-------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.14 g | Final | Wgt/Vol: | 10 mL |
| % Moisture: 41 | Method: | SW846 8081 | В | | |
| PARAMETER Mirex | RESULT 620 J | REPORTING LIMIT 56 | UNITS ug/kg | | |
| | PERCENT | RECOVERY | | | |
| SURROGATE | RECOVERY | LIMITS | | | |
| Tetrachloro-m-xylene | 136 DIL,* | (31 - 131) | | | |
| Decachlorobiphenyl | 194 DIL,* | (18 - 145) | | | |
| NOTE(S): | | | | | |

 $[\]textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes. } \\$

Results and reporting limits have been adjusted for dry weight.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-045

GC Semivolatiles

| Lot-Sample #: A0J060517-035 Date Sampled: 10/04/10 15:35 Prep Date: 10/14/10 | | 10/05/10 | Matrix: SO |
|--|-----------------------------|--------------------|----------------------|
| Prep Batch #: 0287028 | Thisial Wat/Wal | 20.06 ~ | Circl Not Wel 10 ml |
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | _ | Final Wgt/Vol: 10 mL |
| % Moisture: 27 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 1400 | REPORTING LIMIT 45 | UNITS ug/kg |
| | PERCENT | RECOVERY | • |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 126 DIL | (31 - 131) | |
| Decachlorobiphenyl | 127 DIL | (18 - 145) | |
| | | | |

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-046

GC Semivolatiles

| Lot-Sample #: A0J060517-03 Date Sampled: 10/04/10 16: Prep Date: 10/14/10 Prep Batch #: 0287028 | | 10/05/10 | Matrix: SO |
|---|-----------------------------|--------------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.1 g | Final Wgt/Vol: 10 mL |
| % Moisture: 35 | Method: | = | В |
| PARAMETER Mirex | RESULT | REPORTING LIMIT 51 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 133 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 147 DIL,* | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-047

GC Semivolatiles

| Lot-Sample #: A0J060517-041 Date Sampled: 10/05/10 09:1 Prep Date: 10/14/10 Prep Batch #: 0287028 | | 10/05/10 | Matrix SO |
|---|-----------------------------|-------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30,17. g | Final Wgt/Vol: 10 mL |
| % Moisture: 28 | Method | SW846 8081E | 3 |
| PARAMETER Mirex | RESULT 600 J | | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 4150 DIL,* | (31 - 131) | • |
| Decachlorobiphenyl | 155 DIL,* | (18 - 145) | |
| NOWE (d) | | | • |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-048

GC Semivolatiles

| Lot-Sample #: A0J060517-044 Date Sampled: 10/05/10 10:40 Prep Date: 10/14/10 Prep Batch #: 0287028 | | 10/05/10 | Matrix SO |
|---|---------------------|--------------------------|----------------------|
| Dilution Factor: 10 | Initial Wgt/Vol: | 30.02 g | Final Wqt/Vol: 10 mL |
| % Moisture: 27 | Method | _ | 3 · |
| PARAMETER Mirex | RESULT 570 J | REPORTING LIMIT 45 | UNITS ug/kg |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | |
| Tetrachloro-m-xylene | 157 DIL,* | (31 ~ 131) | |
| Decachlorobiphenyl | 104 DIL | (18 - 145) | |
| NOTE(S): | | | |

 $[\]textbf{DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}\\$

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-DUP8

General Chemistry

Lot-Sample #...: A0J060517-002 Work Order #...: L73F5 Matrix.....: SO

Date Sampled...: 10/02/10 09:55 Date Received..: 10/05/10

% Moisture....: 24

| PARAMETER Percent Solids | RESULT 75.7 | - RL 10.0 | UNITS & | METHOD MCAWW 160.3 MOD | PREPARATION- ANALYSIS DATE 10/14-10/15/10 | PREP BATCH # 0287351 | | | |
|--------------------------|--------------------|---------------------|---------|---------------------------|---|----------------------------|--|--|--|
| • | Dilution Factor: 1 | | | | | | | | |
| Total Organic Carbon | 6900 | 1300 ution Facto | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 | | | |

NOTE (S):

Client Sample ID: FPS10-035

General Chemistry

Lot-Sample #...: A0J060517-004

Work Order #...: L73GK

Matrix..... SO

Date Sampled...: 10/02/10 10:30 Date Received..: 10/05/10

% Moisture....: 24

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-----------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 75.6 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 5800 | 1300 | mg/kg or: 1 | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: FPS10-036

General Chemistry

Lot-Sample #...: A0J060517-007 Work Order #...: L73G7 Matrix.....: S0
Date Sampled...: 10/02/10 12:00 Date Received..: 10/05/10

% Moisture....: 25

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 75.2 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 7500 | 1300 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |
| | Dil | ution Fact | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-037

General Chemistry

Lot-Sample #...: A0J060517-010 Work

Work Order #...: L73HL

Matrix....: SO

Date Sampled...: 10/02/10 13:10 Date Received..: 10/05/10

% Moisture....: 28

| | | | | | | PREPARATION- | PREP |
|----|-----------------------|---------------|--------------------|-------------------|-------------------|----------------|---------|
| PA | RAMETER | RESULT | RL | UNITS | METHOD | ANALYSIS DATE | BATCH # |
| Pe | rcent Solids | . 72.3 | 10.0 tion Facto | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| | tal Organic Carbon | 5900 | 1400 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |
| | | Dilu | tion Facto | or: 1 | | | |
| | (a) | | | | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-038

General Chemistry

Lot-Sample #...: A0J060517-013 Work Order #...: L73HT Matrix.....: S0

Date Sampled...: 10/02/10 14:25 Date Received..: 10/05/10

% Moisture....: 15

| PARAMETER | RESULT | <u>RL</u> | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|-------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 84.7 | 10.0 | ቴ or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic | 4600 | 1200 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |
| Carbon | Dilu | ıtion Facto | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-039

General Chemistry

Lot-Sample #...: A0J060517-016 Work Order #...: L73H2 Matrix.....: S0
Date Sampled...: 10/03/10 10:50 Date Received..: 10/05/10

% Moisture....: 23

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 77.0 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 3700 | 1300 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286424 |

NOTE(S):

RL Reporting Limit

Client Sample ID: FPS10-040

General Chemistry

Matrix....: SO

Lot-Sample #...: A0J060517-019 Work Order #...: L73H6

Date Sampled...: 10/03/10 12:15 Date Received..: 10/05/10

% Moisture....: 26

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 73.8 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Çarbon | 5100 | 1400 ution Fact | mg/kg | MSA WALKLBY-BLACK | . 10/13/10 | 0286424 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: FPS10-041

General Chemistry

Lot-Sample #...: A0J060517-022 Work Order #...: L73JA Matrix.....: S0

Date Sampled...: 10/04/10 09:55 Date Received..: 10/05/10

% Moisture....: 37

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------|---------------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 62.8 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 1900 J · | 1600 ution Fact | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286421 |

NOTE (S):

Client Sample ID: FPS10-044

General Chemistry

Lot-Sample #...: A0J060517-031 Work Order #...: L73KK Matrix.....: S0
Date Sampled...: 10/04/10 13:20 Date Received..: 10/05/10

% Moisture....: 43

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 57.3 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 1200 X J | 1700 ution Fact | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286421 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: FPS10-DUP9

General Chemistry

Lot-Sample #...: A0J060517-032 Work Order #...: L73KW Matrix.....: S0
Date Sampled...: 10/04/10 13:20 Date Received..: 10/05/10

% Moisture..... 41

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION - ANALYSIS DATE | PREP BATCH # |
|-------------------------|-------------|---------------------|-------------------|-------------------|--------------------------------|-----------------|
| Percent Solids | 59.4 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 1100 \$ J | 1700 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286421 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: FPS10-045

General Chemistry

Lot-Sample #...: A0J060517-035 Work Order #...: L73LQ Matrix..... SO Date Sampled...: 10/04/10 15:35 Date Received..: 10/05/10

% Moisture....: 27

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 73.4 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 1100 pt J | 1400 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286421 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: FPS10-046

General Chemistry

Lot-Sample #...: A0J060517-038 Work Order #...: L73MH Matrix.....: S0
Date Sampled...: 10/04/10 16:20 Date Received..: 10/05/10

% Moisture....: 35

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|-----------|---------------------|------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 65.2 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 1100 pf J | 1500 ution Facto | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286421 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: FPS10-047

General Chemistry

Lot-Sample #...: A0J060517-041 Work Order #...: L73MR Matrix.....: S0
Date Sampled...: 10/05/10 09:15 Date Received..: 10/05/10

% Moisture....: 28

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION - ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------|--------------------|-------------------|-------------------|--------------------------------|-----------------|
| Percent Solids | 72.2 | 10.0 | % or: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 920 pt J | 1400 ution Fact | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286421 |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: FPS10-048

General Chemistry

Lot-Sample #...: A0J060517-044

Work Order #...: L73M0

Matrix..... SO

Date Sampled...: 10/05/10 10:40 Date Received..: 10/05/10

% Moisture.,...: 27

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------------|---------------------|--------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 72.9 Di | 10.0 lution Fact | % cor: 1 | MCAWW 160.3 MOD | 10/14-10/15/10 | 0287351 |
| Total Organic Carbon | 4200 | 1400 | mg/kg | MSA WALKLEY-BLACK | 10/13/10 | 0286421 |
| | Di | lution Fact | or: 1 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-035

Lab Sample ID:

200-1858-1

Client Matrix:

Solid

Date Sampled: 10/02/2010 1030

Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-B-1.txt

Dilution:

Initial Weight/Volume:

137.72 g

Date Analyzed:

1.0

10/07/2010 2059

Final Weight/Volume:

Date Prepared:

Analyte

Clay

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand Coarse Sand Medium Sand Fine Sand Silt

0.7 31.3

1.4 4.9 25.0

> 55.1 12.9

68.0

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-036

Lab Sample ID:

200-1858-2

Client Matrix:

Solid

Date Sampled: 10/02/2010 1200

Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-B-2.txt

Dilution:

Initial Weight/Volume:

158.04 g

Date Analyzed:

10/07/2010 2118

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | (| Qualifier | NONE | NONE |
|-------------|--------------------|------------|-------|--|--|--|
| Gravel | | 0.0 | | 7 TANA TANA TANA TANA TANA TANA TANA TAN | APPROXIMATE SELECTION OF THE SECOND OF THE SECOND OF | -called Colland School of College Sol at water |
| Sand | | 34.0 | | | | |
| Coarse Sand | | 0.1 | | | | |
| Medium Sand | | 1.6 | | | | |
| Fine Sand | | 32.3 | | | | |
| Silt | | 55.2 | G. NO | | | |
| Clay | | 10.8 | 0, | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-037

Lab Sample ID:

200-1858-3

Client Matrix:

Solid

Date Sampled: 10/02/2010 1310 Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-B-3,txt

Dilution:

Initial Weight/Volume:

145.9 g

Date Analyzed:

1.0

10/07/2010 2120

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|--|------|------|
| Gravel | | 0.0 | TECH ELWING IN THIS CONTROL OF THE PROPERTY OF THE | | V |
| Sand | | 27.2 | | | |
| Coarse Sand | | 0.0 | | | |
| Medium Sand | | 1.9 | | | |
| Fine Sand | | 25.3 | i | | |
| Silt | | 60.0 | 2.8 | | |
| Clay | | 12.8 | (v. | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-038

Lab Sample ID:

200-1858-4

Client Matrix:

Solid

Date Sampled: 10/02/2010 1425 Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-B-4.txt

Dilution:

Initial Weight/Volume:

133.47 g

Date Analyzed:

1.0

10/07/2010 2122

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--|-----------------|-----------|------|------|
| Gravel | ************************************** | 0.0 | | | |
| Sand | | 53.1 | | | |
| Coarse Sand | | 0.0 | | | |
| Medium Sand | | 7.0 | | | |
| Fine Sand | | 46.1 | | | |
| Silt | | 42.0 | .^ | | |
| Clay | | 4.9 \(\lambda\) | 0, | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-039

Lab Sample ID:

200-1858-5

Client Matrix:

Solid

10/07/2010 2125

Date Sampled: 10/03/2010 1050 Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-B-5.txt

NONE

Dilution:

Initial Weight/Volume:

NONE

159.22 g

Date Analyzed:

1.0

Final Weight/Volume:

Qualifier

| Analyte | DryWt Corrected: N | Result (%) |
|-------------|--|------------|
| Gravel | (100-74-100-100-100-100-100-100-100-100-100-10 | 0.0 |
| Sand | | 58.6 |
| Coarse Sand | | 0.2 |
| Medium Sand | | 4.0 |
| Fine Sand | | 54.4 |
| Silt | | 31.0 |
| Clay | | 10.4 |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-040

Lab Sample ID:

200-1858-6

Client Matrix:

Solid

Date Sampled: 10/03/2010 1215

Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-B-6.txt

Dilution:

Initial Weight/Volume:

158.32 g

Date Analyzed:

1.0

10/07/2010 2127

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-------|-----------|------|------|
| Gravel | | 1.6 | | | | |
| Sand | | 48.1 | | | | |
| Çoarse Sand | | 0.9 | | | | |
| Medium Sand | | 7,9 | | | | |
| Fine Sand | | 39.3 | | | | |
| Silt | | 37.4 | 40.3 | | | |
| Clay | | 12.9 | 50. J | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-041

Lab Sample ID:

200-1858-7

Client Matrix:

Solid

Date Sampled: 10/04/2010 0955

D422 Grain Size

Date Received: 10/07/2010 1010

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-D-7.txt

Dilution:

Method:

1.0

Initial Weight/Volume:

137.28 g

Date Analyzed:

10/07/2010 2140

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE | |
|-------------|--------------------|------------|--|------|------|--|
| Gravel | | 0.0 | omittee de la companya de la company | | | |
| Sand | | 24.6 | | | | |
| Coarse Sand | | 0.0 | | | | |
| Medium Sand | | 0.5 | | | | |
| Fine Sand | | 24.1 | \ | | | |
| Silt | | 60.9 | .4 | | | |
| Clay | | 14.5 | | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-044

Lab Sample ID:

200-1858-8

Client Matrix:

Solid

10/07/2010 2147

Date Sampled: 10/04/2010 1320

Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-B-8,txt

Dilution:

Initial Weight/Volume:

101.13 g

Date Analyzed:

Analyte

1.0

Final Weight/Volume:

Date Prepared:

DryWt Corrected: N

Result (%)

Qualifier

NONE

NONE

Gravel Sand Coarse Sand Medium Sand Fine Sand

Silt Clay

0.0 10.3)

0.2 0,7

9,4 65.4

24.3

89.7

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-045

Lab Sample ID:

200-1858-9

Client Matrix:

Solid

Date Sampled: 10/04/2010 1535 Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-B-9.txt

Dilution:

Initial Weight/Volume:

150.87 g

Date Analyzed:

1.0

10/07/2010 2151

Finał Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|----------------------------|--|------|------|
| Gravel | | 0.0 | . N A L A E DD- 2002. I . M E . A E P.M. 2002. M | | |
| Sand | | 25.1 | | | |
| Coarse Sand | | 0.0 | | | |
| Medium Sand | | 1.0 | | | |
| Fine Sand | | 24.1 | | | |
| Silt | | 24.1 61.4 / \d\. \cdot\ | | | |
| Clay | | 13.5 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-046

Lab Sample ID:

200-1858-10

Client Matrix:

Solid

Date Sampled: 10/04/2010 1620

Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

Lab File ID:

200-1858-B-10.txt

NONE

Dilution:

Initial Weight/Volume:

100.27 g

Date Analyzed:

1.0

10/07/2010 2154

Final Weight/Volume:

NONE

Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier |
|-------------|--------------------|----------------------|-----------|
| Gravel | | 0.0 | |
| Sand | | 15.4 | |
| Coarse Sand | | 0.1 | |
| Medium Sand | | 0.4 | |
| Fine Sand | | 14.9 | |
| Silt | | 14.9 64.6 4 \(\) | |
| Clay | | 20.0 | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1858-1

Sdg Number: A0J060517

Client Sample ID:

FPS10-048

Lab Sample ID:

200-1858-12

Client Matrix:

Solid

10/07/2010 2157

Date Sampled: 10/05/2010 1040

Date Received: 10/07/2010 1010

D422 Grain Size

Method:

D422

Analysis Batch: 200-7686

Instrument ID:

D422_import

Preparation:

N/A

200-1858-B-12.txt

Dilution:

Lab File ID: Initial Weight/Volume:

117.93 g

Date Analyzed:

1.0

Final Weight/Volume:

Date Prepared:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|--|-----------|------|------|
| Gravel | | 0.5 | | | |
| Sand | | 42.1 | | | |
| Coarse Sand | | 0.4 | | | |
| Medium Sand | | 3.4 | | | |
| Fine Sand | | 38.3 | | | |
| Silt | | 48,2 \(\lambda \lambd | | | |
| Clay | | 9,2 [']) | | | |

Client Sample ID: FPS10-042

GC Semivolatiles

| Lot-Sample #: A1C080536-001 Date Sampled: 10/04/10 11:15 Prep Date: 03/09/11 Prep Batch #: 1068030 | | 10/05/10 | Matrix: SO |
|--|------------------------------------|--|----------------|
| Dilution Factor: 2 % Moisture: 34 | <pre>Initial Wgt/Vol: Method</pre> | _ | 3, |
| PARAMETER Mirex | RESULT 220 | REPORTING | UNITS ug/kg |
| SURROGATE Tetrachloro-m-xylene Decachlorobiphenyl | PERCENT RECOVERY 79 88 | RECOVERY LIMITS (31 - 131) (18 - 145) | |
| NOTE (S): | | | · |

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-043

GC Semivolatiles

| Lot-Sample #: A1C080536-002 Date Sampled: 10/04/10 12:20 | | | Matrix SO |
|--|-----------------------------|-------------|----------------------|
| Prep Date: 03/09/11 | Analysis Date: | 03/15/11 | |
| Prep Batch #: 1068030 | | | |
| Dilution Factor: 2 | <pre>Initial Wgt/Vol:</pre> | 30.03 g | Final Wgt/Vol: 10 mL |
| % Moisture: 37 | Method: | SW846 8081E | 3 |
| | | | • |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 280 | 11 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 91 | (31 - 131) | |
| Decachlorobiphenyl | 121 | (18 - 145) | |
| NOTE (2). | | | |

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-042

General Chemistry

Lot-Sample #...: A1C080536-001 Work Order #...: MFC39 Matrix....: S0
Date Sampled...: 10/04/10 11:15 Date Received..: 10/05/10

% Moisture....: 34

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 65.8
 10.0
 %
 MCAWW 160.3 MOD
 03/16-03/17/11
 1075163

Dilution Factor: 1

303

Client Sample ID: FPS10-043

General Chemistry

Lot-Sample #...: A1C080536-002 Work Order #...: MFC4D Matrix...... S0

Date Sampled...: 10/04/10 12:20 Date Received..: 10/05/10

% Moisture....: 37

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH #

 Percent Solids
 62.8
 10.0
 %
 MCAWW 160.3 MOD
 03/16-03/17/11
 1075163

Dilution Factor: 1

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4885-1

Sdg Number: A1D250475

Client Sample ID:

FPS10-042

Lab Sample ID:

200-4885-1

Client Matrix:

Solid

Date Sampled: 10/04/2010 1115

Date Received: 04/26/2011 1240

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-17431

Instrument ID:

D422_import

N/A

Prep Batch:

Lab File ID:

200-4885-A-1.txt

Dilution:

1.0

N/A

Initial Weight/Volume:

78.63 g

Analysis Date:

04/27/2011 2127

Prep Date:

N/A

Final Weight/Volume:

Analyte DryWt Corrected: N Result (%) Qualifier NONE NONE Gravel 0.2 Sand 28.0 Coarse Sand 0.6 Medium Sand 1.7 Fine Sand 25.7 Silt 53.8 Clay 18.0

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4885-1

Sdg Number: A1D250475

Client Sample ID:

FPS10-043

Lab Sample ID:

200-4885-2

Client Matrix:

Solid

Date Sampled: 10/04/2010 1220

Date Received: 04/26/2011 1240

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-17431

Instrument ID:

D422_import

N/A

Prep Batch:

Lab Fife ID:

200-4885-A-2.txt

Dilution:

1.0

N/A

Initial Weight/Volume:

82.33 g

Analysis Date:

04/27/2011 2131

Prep Date:

N/A

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--|------------|-----------|------|------|
| Gravel | realists of Pilling Medical Advisor Philadel Blood of the construction for the Pilling Construction of the | 0.0 | | | |
| Sand | | 14.3 | | | |
| Coarse Sand | | 0.3 | | | |
| Medium Sand | | 1.6 | | | |
| Fine Sand | | 12.4 | | | |
| Silt | | 61.8 | | | |
| Clay | | 23.9 | | | |

Client Sample ID: FPS10-054

GC Semivolatiles

| Lot-Sample #: A1C300562-003 Date Sampled: 03/29/11 09:4 Prep Date: 04/04/11 Prep Batch #: 1094042 | | 03/30/11 | Matrix SO |
|---|-----------------------------|---------------------|----------------------|
| Dilution Factor: 50 | <pre>Initial Wgt/Vol:</pre> | 29.99 g | Final Wgt/Vol: 10 mL |
| % Moisture: 27 | Method: | - | 3 |
| PARAMETER Mirex | RESULT_ | REPORTING LIMIT 230 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 130 DIL | (31 - 131) | |
| Decachlorobiphenyl | 188 DIL,* | (18 - 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes. * Surrogate recovery is outside stated control limits.

30

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-056

GC Semivolatiles

| Lot-Sample #: A1C300562-009 Date Sampled: 03/29/11 11:50 Prep Date: 04/04/11 Prep Batch #: 1094042 | | 03/30/11 | Matrix SO |
|--|-----------------------------|---------------------|----------------------|
| Dilution Factor: 50 | <pre>Initial Wgt/Vol:</pre> | 30.1 g | Final Wgt/Vol: 10 mL |
| % Moisture: 30 | Method: | SW846 8081 | В |
| PARAMETER Mirex | RESULT 470 | REPORTING LIMIT 240 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 132 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 84 DIL | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-057

GC Semivolatiles

| Lot-Sample #: A1C300562-012 Date Sampled: 03/29/11 14:00 Prep Date: 04/04/11 Prep Batch #: 1094042 | | 03/30/11 | Matrix SO |
|--|------------------|--------------|----------------------|
| Dilution Factor: 100 | Initial Wgt/Vol: | 29.92 g | Final Wgt/Vol: 10 mL |
| % Moisture: 29 | Method: | - | <u>-</u> |
| PARAMETER Mirex | RESULT 980 J | | urs //kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 139 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 893 DIL,* | (18 - 145) | |
| NOTE(S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-057FD

GC Semivolatiles

| Lot-Sample #: A1C300562-01: Date Sampled: 03/29/11 14: Prep Date: 04/04/11 Prep Batch #: 1094042 | | 03/30/11 | Matrix: SO |
|--|------------------|-------------|----------------------|
| Dilution Factor: 100 | Initial Wgt/Vol: | 30.04 g | Final Wgt/Vol: 10 mL |
| % Moisture: 29 | Method | SW846 8081B | |
| PARAMETER Mirex | RESULT | | NITS g/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 194 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 0.0 DIL,* | (18 - 145) | |
| | | | |

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-058

GC Semivolatiles

| Lot-Sample #: A1C300562-016 Date Sampled: 03/29/11 15:25 Prep Date: 04/04/11 Prep Batch #: 1094042 | | 03/30/11 | Matrix SO |
|---|------------------|-------------|----------------------|
| Dilution Factor: 100 | Initial Wgt/Vol: | 30.02 g | Final Wgt/Vol: 10 mL |
| % Moisture: 28 | Method: | SW846 8081B | |
| PARAMETER Mirex | RESULT | | NITS 1g/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 383 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 482 DIL,* | (18 ~ 145) | |
| | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

PG The percent difference between the original and confirmation analyses is greater than 40%.

^{*} Surrogate recovery is outside stated control limits,

Client Sample ID: FPS10-053

GC Semivolatiles

| Lot-Sample #: A1C30059 Date Sampled: 03/28/11 Prep Date: 04/04/11 Prep Batch #: 1094042 | 15:05 Date Received: | 03/29/11 | Matrix: SO |
|---|-----------------------------|---------------------|----------------------|
| Dilution Factor: 100 | <pre>Initial Wgt/Vol:</pre> | 30 g | Final Wgt/Vol: 10 mL |
| % Moisture: 35 | Method: | - | В |
| PARAMETER Mirex | RESULT 740 pc J | REPORTING LIMIT 510 | UNITS ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 136 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 213 DIL,* | (18 - 145) | |
| | | | |

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

PG The percent difference between the original and confirmation analyses is greater than 40%.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-053 FD

GC Semivolatiles

| Lot-Sample #: A1C300593-016 | | | Matrix SO |
|------------------------------|-----------------------------|------------|----------------------|
| Date Sampled: 03/28/11 15:05 | Date Received: | 03/29/11 | |
| Prep Date: 04/04/11 | Analysis Date: | 04/13/11 | |
| Prep Batch #: 1094042 | | | |
| Dilution Factor: 100 | <pre>Initial Wgt/Vol:</pre> | 30 g | Final Wgt/Vol: 10 mL |
| % Moisture: 32 | Method: | SW846 8081 | В |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 710 PG J | 490 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 224 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 150 DIL,* | (18 - 145) | |
| NOTE(S): | w | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

PG The percent difference between the original and confirmation analyses is greater than 40%.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-066

GC Semivolatiles

| Lot-Sample #: A1C310607-009 Date Sampled: 03/31/11 11:25 Prep Date: 04/04/11 Prep Batch #: 1094042 | | 03/31/11 | Matrix: SO |
|--|-----------------------------|------------|----------------------|
| Dilution Factor: 10 | <pre>Initial Wgt/Vol:</pre> | 30.08 g | Final Wgt/Vol: 10 mL |
| % Moisture: 31 | Method: | SW846 8081 | В |
| | | REPORTING | |
| PARAMETER | RESULT | LIMIT | UNITS |
| Mirex | 140 | 48 | ug/kg |
| | PERCENT | RECOVERY | |
| SURROGATE | RECOVERY | LIMITS | |
| Tetrachloro-m-xylene | 221 DIL,* | (31 - 131) | |
| Decachlorobiphenyl | 192 DIL,* | (18 - 145) | |
| NOTE (S): | | | |

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: FPS10-054

General Chemistry

Lot-Sample #...: A1C300562-003 Work Order #...: MGDP9 Matrix.....: SO

Date Sampled...: 03/29/11 09:45 Date Received..: 03/30/11

% Moisture....: 27

| PARAMETER Percent Solids | RESULT 72.6 | RL 10.0 | UNITS % or: 1 | METHOD MCAWW 160.3 MOD | PREPARATION- ANALYSIS DATE 03/31-04/01/11 | PREP BATCH # 1090271 |
|--------------------------|-------------|-------------|---------------------|------------------------|---|----------------------------|
| Total Organic Carbon | 34000 J | 6900 | mg/kg | MSA WALKLEY-BLACK | 04/12/11 | 1102074 |
| | Dil | ution Facto | or: 5 | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: FPS10-056

General Chemistry

Lot-Sample #...: A1C300562-009 Work Order #...: MGDQH Matrix.....: S0

Date Sampled...: 03/29/11 11:50 Date Received..: 03/30/11

% Moisture....: 30

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|---------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 69.7 | 10.0 ution Facto | % or: 1 | MCAWW 160.3 MOD | 03/31-04/01/11 | 1090271 |
| Total Organic Carbon | 7900 J | 1400 ution Facto | mg/kg | MSA WALKLEY-BLACK | 04/12/11 | 1102074 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: FPS10-057

General Chemistry

Lot-Sample #...: A1C300562-012 Work Order #...: MGDQL Matrix.....: SO

Date Sampled...: 03/29/11 14:00 Date Received..: 03/30/11

% Moisture....: 29

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 71.2 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 03/31-04/01/11 | 1090271 |
| Total Organic Carbon | 17000 J | 1400 ution Fact | mg/kg | MSA WALKLEY-BLACK | 04/12/11 | 1102074 |
| | | | | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: FPS10-057FD

General Chemistry

Lot-Sample #...: A1C300562-013 Work Order #...: MGDQM Matrix.....: SO

Date Sampled...: 03/29/11 14:00 Date Received..: 03/30/11

% Moisture....: 29

| PARAMETER | RESULT | <u>RL</u> | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------------|--------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 70.9 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 03/31-04/01/11 | 1090271 |
| Total Organic Carbon | 19000 J | 7100 ution Fact | mg/kg | MSA WALKLEY-BLACK | 04/12/11 | 1102074 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: FPS10-058

General Chemistry

Lot-Sample #...: A1C300562-016 Work Order #...: MGDQQ Matrix.....: SO

Date Sampled...: 03/29/11 15:25 Date Received..: 03/30/11

% Moisture....: 28

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|----------------|---------------------------|-------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 72.1 | 10.0 ution Fact | % or: 1 | MCAWW 160.3 MOD | 03/31-04/01/11 | 1090271 |
| Total Organic Carbon | 32000 J | 6900 ution Fact | mg/kg | MSA WALKLEY-BLACK | 04/12/11 | 1102074 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL. Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: FPS10-053

General Chemistry

Lot-Sample #...: A1C300593-015 Work Order #...: MGD1L Matrix....: S0
Date Sampled...: 03/28/11 15:05 Date Received..: 03/29/11

% Moisture....: 35

PREPARATION-PREP RESULT UNITS PARAMETER METHOD ANALYSIS DATE BATCH # RL 03/31-04/01/11 1090271 Percent Solids 10.0 왐 65.0 MCAWW 160.3 MOD Dilution Factor: 1 Total Organic 31000 7700 MSA WALKLEY-BLACK 04/11/11 1101254 mg/kg Carbon Dilution Factor: 5

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: FPS10-053 FD

General Chemistry

Lot-Sample #...: A1C300593-016 Work Order #...: MGD1M Matrix....: S0
Date Sampled...: 03/28/11 15:05 Date Received..: 03/29/11

% Moisture....: 32

| PARAMETER | RESULT | <u>RL</u> | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|--------------|---------------------|--------------------|-------------------|-------------------------------|-----------------|
| Percent Solids | 67.7 | 10.0 lution Fact | % tor: 1 | MCAWW 160.3 MOD | 03/31-04/01/11 | 1090271 |
| Total Organic Carbon | 33000 | 7400 | mg/kg | MSA WALKLEY-BLACK | 04/11/11 | 1101254 |
| 270mm (a) | | | | | | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

Client Sample ID: FPS10-066

General Chemistry

Lot-Sample #...: A1C310607-009 Work Order #...: MGFTD Matrix.....: S0
Date Sampled...: 03/31/11 11:25 Date Received..: 03/31/11

% Moisture....: 31

| PARAMETER Percent Solids | RESULT 69.3 | RL 10.0 lution Fac | UNITS | METHOD MCAWW 160.3 MOD | PREPARATION- ANALYSIS DATE 04/01-04/02/11 | PREP BATCH # 1091125 |
|--------------------------|-------------|--------------------------|-------|------------------------|---|----------------------------|
| Total Organic Carbon | 39000 J | 7200 | mg/kg | MSA WALKLEY-BLACK | 04/12/11 | 1102074 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4528-1

Sdg Number: A1C310607

Client Sample ID:

FPS10-066

Lab Sample ID:

200-4528-1

Client Matrix:

Solid

Date Sampled: 03/31/2011 1125

Date Received: 04/02/2011 0930

D422 Grain Size

Analysis Method:

D422

Analysis Batch: Prep Batch:

75.0

72.0

63.5

37.7

29.9

22.1

17.8

13.5

7.4

3,1

200-16270

Instrument ID:

D422 import

N/A

04/05/2011 2135

N/A

Lab File ID:

200-4528-A-1.txt

NONE

Dilution: Analysis Date: 1.0

Qualifier

Initial Weight/Volume:

133.97 g

Final Weight/Volume:

NONE

Prep Date: N/A

Sieve Size #80 - Percent Finer

Sieve Size #100 - Percent Finer

Sieve Size #200 - Percent Finer

Hydrometer Reading 1 - Percent Finer

Hydrometer Reading 2 - Percent Finer

Hydrometer Reading 3 - Percent Finer

Hydrometer Reading 4 - Percent Finer

Hydrometer Reading 5 - Percent Finer

Hydrometer Reading 6 - Percent Finer

Hydrometer Reading 7 - Percent Finer

| Analyte | DryWt Corrected: N | Result (% Passing) |
|--------------------------|--------------------|--------------------|
| Sieve Size 3 inch - Per | cent Finer | 100.0 |
| Sieve Size 2 inch - Per | cent Finer | 100.0 |
| Sieve Size 1.5 inch - Po | ercent Finer | 100.0 |
| Sieve Size 1 inch - Per | cent Finer | 100.0 |
| Sieve Size 0.75 inch - I | Percent Finer | 100.0 |
| Sieve Size 0.375 inch - | Percent Finer | 100.0 |
| Sieve Size #4 - Percen | t Finer | 100.0 |
| Sieve Size #10 - Perce | nt Finer | 99.0 |
| Sieve Size #20 - Perce | nt Finer | 97.2 |
| Sieve Size #40 - Perce | nt Finer | 91.8 |
| Sieve Size #60 - Perce | nt Finer | 82.7 |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4528-1

Sdg Number: A1C310607

Client Sample ID:

FPS10-066

Lab Sample ID:

200-4528-1

Client Matrix:

Solid

Date Sampled: 03/31/2011 1125 Date Received: 04/02/2011 0930

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16270

Instrument ID:

D422_import

Dilution:

N/A 1.0

Prep Batch:

N/A

Lab File ID:

200-4528-A-1.txt

133.97 g

04/05/2011 2135

Analysis Date: Prep Date:

N/A

Initial Weight/Volume:

Final Weight/Volume:

Analyte DryWt Corrected: N Result (%) Qualifier NONE NONE Gravel 0.0 36.5 Sand Coarse Sand 1.0 Medium Sand 7.2 Fine Sand 28.3 50.0 Silt Clay 13.5

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-054

Lab Sample ID:

200-4493-1

Client Matrix:

Solid

Date Sampled: 03/29/2011 0945

Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

Dilution:

N/A 1.0

Prep Batch:

N/A

Lab File ID:

200-4493-A-1,txt

Initial Weight/Volume:

148.26 g

Analysis Date:

04/04/2011 2028

Final Weight/Volume:

Prep Date:

| Analyte | DryWt Corrected: N | Result (% Passing) | Qualifier | NONE | NONE |
|-------------------------------|--------------------|--------------------|-----------|--|--|
| Sieve Size 3 inch - Percent F | iner | 100.0 | | t to the second control of the second of the | ALLENANDE CONTRACTOR C |
| Sieve Size 2 inch - Percent F | iner | 100.0 | | | |
| Sieve Size 1.5 inch - Percent | Finer | 100.0 | | | |
| Sieve Size 1 inch - Percent F | iner | 100.0 | | | |
| Sieve Size 0.75 inch - Percen | nt Finer | 100.0 | | | |
| Sieve Size 0.375 inch - Perce | ent Finer | 100.0 | | | |
| Sieve Size #4 - Percent Finer | | 100.0 | | | |
| Sieve Size #10 - Percent Fine | er | 99.7 | | | |
| Sieve Size #20 - Percent Fine | er | 98.9 | | | |
| Sieve Size #40 - Percent Fine | er | 95.6 | | | |
| Sieve Size #60 - Percent Fine | er | 81.5 | | | |
| Sieve Size #80 - Percent Fine | şr | 72.5 | | | |
| Sieve Size #100 - Percent Fir | ner | 69.7 | | | |
| Sieve Size #200 - Percent Fir | ner | 60.9 | | | |
| Hydrometer Reading 1 - Perc | ent Finer | 30.6 | | | |
| Hydrometer Reading 2 - Perc | ent Finer | 23.2 | | | |
| Hydrometer Reading 3 - Perc | ent Finer | 15.7 | | | |
| Hydrometer Reading 4 - Perc | ent Finer | 12,8 | | | |
| Hydrometer Reading 5 - Perc | ent Finer | 9.8 | | | |
| Hydrometer Reading 6 - Perc | ent Finer | 5.3 | | | |
| Hydrometer Reading 7 - Perc | ent Finer | 2.4 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-054

Lab Sample ID:

200-4493-1

Client Matrix:

Solid

Date Sampled: 03/29/2011 0945

Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

N/A

Prep Batch:

N/A

Lab File ID:

200-4493-A-1.txt

Dilution:

1.0

Initial Weight/Volume:

148.26 g

Analysis Date:

04/04/2011 2028

Final Weight/Volum

Prep Date:

N/A

| rınaı | vveigni/volume: | |
|-------|-----------------|--|
| | | |

Analyte DryWt Corrected: N Result (%) Qualifier NONE NONE Gravel 0.0 Sand 39.1 Coarse Sand 0.3 Medium Sand 4.1 Fine Sand 34.7 Silt 51.1 Clay 9.8

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-056

Lab Sample ID:

200-4493-2

Client Matrix:

Solid

Date Sampled: 03/29/2011 1150 Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

Dilution:

N/A 1.0

Prep Batch:

N/A

Lab File ID:

200-4493-A-2.txt

Initial Weight/Volume:

113.72 g

Analysis Date: Prep Date:

04/04/2011 2030 N/A

Hydrometer Reading 6 - Percent Finer

Hydrometer Reading 7 - Percent Finer

Final Weight/Volume:

| Analyte DryWt Co | rrected: N | Result (% Passing) | Qualifier | NONE | NONE |
|---------------------------------------|------------|--------------------|--|--|------|
| Sieve Size 3 inch - Percent Finer | | 100.0 | e en | 4 TANA AN ANAL ANALONG PROPERTY AND ANALONG PARTY. | |
| Sieve Size 2 inch - Percent Finer | | 100.0 | | | |
| Sieve Size 1.5 inch - Percent Finer | | 100.0 | | | |
| Sieve Size 1 inch - Percent Finer | | 100.0 | | | |
| Sieve Size 0.75 inch - Percent Finer | | 100.0 | | | |
| Sieve Size 0.375 inch - Percent Finer | | 100.0 | | | |
| Sieve Size #4 - Percent Finer | | 99.0 | | | |
| Sieve Size #10 - Percent Finer | | 98.0 | | | |
| Sieve Size #20 - Percent Finer | | 97.9 | | | |
| Sieve Size #40 - Percent Finer | | 96.8 | | | |
| Sieve Size #60 - Percent Finer | | 94.9 | | | |
| Sieve Size #80 - Percent Finer | | 88.7 | | | |
| Sieve Size #100 - Percent Finer | | 86.1 | | | |
| Sieve Size #200 - Percent Finer | | 74.4 | | | |
| Hydrometer Reading 1 - Percent Finer | | 49.6 | | | |
| Hydrometer Reading 2 - Percent Finer | | 39.5 | | | |
| Hydrometer Reading 3 - Percent Finer | | 30.4 | | | |
| Hydrometer Reading 4 - Percent Finer | | 26.4 | | | |
| Hydrometer Reading 5 - Percent Finer | | 21.4 | | | |

13.3

8.2

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-056

Lab Sample ID:

200-4493-2

Client Matrix:

Solid

Date Sampled: 03/29/2011 1150

Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

N/A 1.0

Prep Batch:

N/A

Lab File ID:

200-4493-A-2.txl

Dilution:

Initial Weight/Volume:

113.72 g

Analysis Date:

04/04/2011 2030

Prep Date:

N/A

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|--|
| Gravel | | 1.0 | C. 1 | | to the second se |
| Sand | | 24.6 | | | |
| Coarse Sand | | 1.0 | | | |
| Medium Sand | | 1.2 | | | |
| Fine Sand | | 22.4 | | | |
| Silt | | 53.0 | | | |
| Clay | | 21.4 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-057

Lab Sample ID:

200-4493-3

Client Matrix:

Solid

Date Sampled: 03/29/2011 1400 Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

Dilution:

N/A

Prep Batch:

Lab File ID:

200-4493-A-3.txt

1.0

N/A

Initial Weight/Volume:

Analysis Date:

04/04/2011 2033

102 g

Prep Date:

N/A

| Analyte | DryWt Corrected: N | Result (% Passing) | Qualifier | NONE | NONE |
|-------------------------------|--------------------|--------------------|--|---------------------------------------|---------------------------------------|
| Sieve Size 3 inch - Percent F | | 100.0 | Land the second and se | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
| Sieve Size 2 inch - Percent f | | 100.0 | | | |
| Sieve Size 1.5 inch - Percen | | 100.0 | | | |
| Sieve Size 1 inch - Percent F | | 100.0 | | | |
| Sieve Size 0.75 inch - Perce | | 100.0 | | | |
| Sieve Size 0.375 inch - Perc | ent Finer | 100.0 | | | |
| Sieve Size #4 - Percent Fine | r | 100.0 | | | |
| Sieve Size #10 - Percent Fin | er | 99.7 | | | |
| Sieve Size #20 - Percent Fin | er | 99.6 | | | |
| Sieve Size #40 - Percent Fin | ег | 98.6 | | | |
| Sieve Size #60 - Percent Fin | ег | 95.7 | | | |
| Sieve Size #80 - Percent Fin | er | 87.5 | | | |
| Sieve Size #100 - Percent Fi | iner | 83.7 | | | |
| Sieve Size #200 - Percent Fi | ner | 67.1 | | | |
| Hydrometer Reading 1 - Per | cent Finer | 39.0 | | | |
| Hydrometer Reading 2 - Per | cent Finer | 32.3 | | | |
| Hydrometer Reading 3 - Per | cent Finer | 23.4 | | | |
| Hydrometer Reading 4 - Per | cent Finer | 19,0 | | | |
| Hydrometer Reading 5 - Per | cent Finer | 14.6 | | | |
| Hydrometer Reading 6 - Per | cent Finer | 10,2 | | | |
| Hydrometer Reading 7 - Per | cent Finer | 6.8 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-057

Lab Sample ID:

200-4493-3

Client Matrix:

Solid

Date Sampled: 03/29/2011 1400

Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

Dilution:

N/A

Prep Batch:

N/A

Lab File ID:

200-4493-A-3.txt

Analysis Date:

1.0

04/04/2011 2033

Prep Date:

N/A

Initial Weight/Volume:

102 g

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|--|------|
| Gravel | | 0.0 | | NAMES OF THE PROPERTY OF THE P | |
| Sand | | 32.9 | | | |
| Coarse Sand | | 0.3 | | | |
| Medium Sand | | 1.1 | | | |
| Fine Sand | | 31.5 | | | |
| Silt | | 52.5 | | | |
| Clay | | 14.6 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-058

Lab Sample ID:

200-4493-4

Client Matrix:

Solid

Date Sampled: 03/29/2011 1525 Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch: Prep Batch:

200-16139 N/A

Instrument ID:

D422_import

N/A

1.0

Hydrometer Reading 7 - Percent Finer

04/04/2011 2036

Analysis Date: Prep Date:

Dilution:

N/A

Lab Fife ID: Initial Weight/Volume: 200-4493-A-4.txt

140.64 g

Final Weight/Volume:

| Analyte I | DryWt Corrected: N | Result (% Passing) | Qualifier | NONE | NONE |
|--------------------------------------|--------------------|--------------------|-----------|------|------|
| Sieve Size 3 inch - Percent Fine | Γ | 100.0 | | | |
| Sieve Size 2 inch - Percent Fine | Г | 100.0 | | | |
| Sieve Size 1.5 inch - Percent Fir | ner | 100.0 | | | |
| Sieve Size 1 inch - Percent Fine | Г | 100.0 | | | |
| Sieve Size 0.75 inch - Percent F | iner | 100.0 | | | |
| Sieve Size 0.375 inch - Percent | Finer | 100.0 | | | |
| Sieve Size #4 - Percent Finer | | 100.0 | | | |
| Sieve Size #10 - Percent Finer | | 99.5 | | | |
| Sieve Size #20 - Percent Finer | | 99.2 | | | |
| Sieve Size #40 - Percent Finer | | 97.8 | | | |
| Sieve Size #60 - Percent Finer | | 92.1 | | | |
| Sieve Size #80 - Percent Finer | | 82.9 | | | |
| Sieve Size #100 - Percent Finer | | 78.2 | | | |
| Sieve Size #200 - Percent Finer | | 61.0 | | | |
| Hydrometer Reading 1 - Percent | t Finer | 31.0 | | | |
| Hydrometer Reading 2 - Percent | t Finer | 24.1 | | | |
| Hydrometer Reading 3 - Percent | t Finer | 17.9 | | | |
| Hydrometer Reading 4 - Percent | t Finer | 14.0 | | | |
| Hydrometer Reading 5 - Percent Finer | | 10.9 | | | |
| Hydrometer Reading 6 - Percent | t Finer | 7.1 | | | |

4.0

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-058

Lab Sample ID:

200-4493-4

Client Matrix:

Solid

Date Sampled: 03/29/2011 1525

Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

N/A 1.0

Prep Batch:

Lab File ID:

200-4493-A-4.txt

Dilution:

N/A

Initial Weight/Volume:

140.64 g

Analysis Date:

04/04/2011 2036

Final Weight/Volume:

Prep Date:

| DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|--------------------|------------|---|---|--|
| | 0.0 | ······································ | | samma uummaka sahika maka sama sama sahi musa mensuah sahisus ahisa 2000 sambi sahib 2014. |
| | 39.0 | | | |
| | 0.5 | | | |
| | 1.7 | | | |
| | 36.8 | | | |
| | 50.1 | | | |
| | 10.9 | | | |
| | | 0.0 39.0 0.5 1.7 36.8 50.1 | 0.0 39.0 0.5 1.7 36.8 50.1 | 0.0 39.0 0.5 1.7 36.8 50.1 |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4492-1

Sdg Number: AIC300593

Client Sample ID:

FPS10-053

Lab Sample ID:

200-4492-1

Client Matrix:

Solid

Date Sampled: 03/28/2011 1505 Date Received: 04/01/2011 1104

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16138

Instrument ID:

D422_import

N/A

1.0

Prep Batch:

Lab File ID:

200-4492-A-1,txt

Dilution:

N/A

Initial Weight/Volume:

135.25 g

Analysis Date: Prep Date:

04/04/2011 2024

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (% Passing) | Qualifier | NONE | NONE |
|-----------------------------------|--------------------|--------------------|--|------|------|
| Sieve Size 3 inch - Percent Finer | | 100.0 | AC THE TOTAL PARTY IN THE STATE OF THE STATE | V | |
| Sieve Size 2 inch - Percent Fin | ner | 100.0 | | | |
| Sieve Size 1.5 inch - Percent I | Finer | 100.0 | | | |
| Sieve Size 1 inch - Percent Fin | ner | 100.0 | | | |
| Sieve Size 0.75 inch - Percent | Finer | 100.0 | | | |
| Sieve Size 0.375 inch - Percei | nt Finer | 100.0 | | | |
| Sieve Size #4 - Percent Finer | | 100.0 | | | |
| Sieve Size #10 - Percent Fine | r | 99.5 | | | |
| Sieve Size #20 - Percent Fine | r | 99.3 | | | |
| Sieve Size #40 - Percent Fine | r | 97.5 | | | |
| Sieve Size #60 - Percent Fine | ٢ | 95.9 | | | |
| Sieve Size #80 - Percent Fine | г | 92.8 | | | |
| Sieve Size #100 - Percent Fin | er | 91.5 | | | |
| Sieve Size #200 - Percent Fin | er | 83.9 | | | |
| Hydrometer Reading 1 - Perce | ent Finer | 43.6 | | | |
| Hydrometer Reading 2 - Perce | ent Finer | 34.8 | | | |
| Hydrometer Reading 3 - Perce | ent Finer | 24.1 | | | |
| Hydrometer Reading 4 - Perce | ent Finer | 18.8 | | | |
| Hydrometer Reading 5 - Perce | ent Finer | 13.5 | | | |
| Hydrometer Reading 6 - Perce | ent Finer | 8.1 | | | |
| Hydrometer Reading 7 - Perce | ent Finer | 3.7 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4492-1

Sdg Number: AIC300593

Client Sample ID:

FPS10-053

Lab Sample ID:

200-4492-1

Client Matrix:

Solid

Date Sampled: 03/28/2011 1505 Date Received: 04/01/2011 1104

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16138

Instrument ID:

D422_import

N/A

1.0

Prep Batch:

Lab File ID:

200-4492-A-1.txt

Dilution:

N/A

Initial Weight/Volume:

135.25 g

Analysis Date:

04/04/2011 2024

Final Weight/Volume:

Prep Date:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|---------------------------------------|
| Gravel | | 0.0 | | | · · · · · · · · · · · · · · · · · · · |
| Sand | | 16.1 | | | |
| Coarse Sand | | 0.5 | | | |
| Medium Sand | | 2.0 | | | |
| Fine Sand | | 13.6 | | | |
| Silt | | 70.4 | | | |
| Clay | | 13.5 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-054

Lab Sample ID:

200-4493-1

Client Matrix:

Solid

Date Sampled: 03/29/2011 0945 Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

N/A

Prep Batch:

N/A

Lab File ID:

200-4493-A-1.txt

Dilution:

1.0

Initial Weight/Volume:

148.26 g

Analysis Date:

04/04/2011 2028

Final Weight/Volume:

Prep Date:

N/A

Qualifier

NONE

NONE

Analyte DryWt Corrected: N Result (%) (0.0) (39.1) Gravel Sand 0.3 Coarse Sand Medium Sand 4.1 Fine Sand 34.7 Silt 51.1 6.00 Clay 9.8

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-056

Lab Sample ID:

200-4493-2

Client Matrix:

Solid

Date Sampled: 03/29/2011 1150

Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

N/A Dilution:

1.0

Prep Batch: N/A Lab File ID:

200-4493-A-2.txt

Initial Weight/Volume:

113.72 g

Analysis Date:

04/04/2011 2030

Final Weight/Volume:

Prep Date:

N/A

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|---|------------|---|------|------|
| Gravel | rten – 1 d. n. i. metari in 1 man diliki n. m. iki n. m. iki 1 limbar 1 li 1 n. n. 1 d. d. n. n. n. diliki dana mempunya mempunya menganya | 1.0 | , | | |
| Sand | | 24.6 | | | |
| Coarse Sand | | 1.0 | | | |
| Medium Sand | | 1.2 | | | |
| Fine Sand | | 22.4 | | | |
| Silt | | 53.0 74.4 | | | |
| Clay | | 21.4 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-057

Lab Sample ID:

200-4493-3

Client Matrix:

Solid

Date Sampled: 03/29/2011 1400

Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16139

Instrument ID:

D422_import

N/A

Prep Batch:

Lab File ID:

200-4493-A-3.txt

Difution:

1.0

N/A

Initial Weight/Volume:

102 g

Analysis Date:

04/04/2011 2033

Final Weight/Volume:

Prep Date:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|-------------------------|-----------|------|------|
| Gravel | | 0.0 | | | |
| Sand | | 32.9 | | | |
| Coarse Sand | | 0.3 | | | |
| Medium Sand | | 1.1 | | | |
| Fine Sand | | 31.5 | | | |
| Silt | | 52.5 (g ^{-/} \ | | | |
| Clay | | 14.6 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4493-1

Sdg Number: A13C00562

Client Sample ID:

FPS10-058

Lab Sample ID:

200-4493-4

Client Matrix:

Solid

Date Sampled: 03/29/2011 1525

Date Received: 04/01/2011 1010

D422 Grain Size

Analysis Method:

D422 N/A

Analysis Batch:

200-16139

Instrument ID:

D422_import

1.0

Prep Batch:

Lab File ID:

200-4493-A-4.txt

Dilution:

N/A

Initial Weight/Volume:

140.64 g

Analysis Date:

04/04/2011 2036

Prep Date:

N/A

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|--|------------------------------------|--|
| Gravel | | 0.0 | PRINCES OF THE STATE OF THE PERSON OF THE STATE OF THE PERSON OF THE STATE OF THE S | CALLELLA II IV. ALIVOSPOVETES VIES | THE ST. LEADING WITH WITH WITH THE STREET STREET, STORE VIEW S. A. WILLIAM |
| Sand | | 39.0 | | | |
| Coarse Sand | | 0.5 | | | |
| Medium Sand | | 1.7 | | | |
| Fine Sand | | 36.8 | _ | | |
| Silt | | 50.1 61. | 3 | | |
| Clay | | 10.9 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4492-1

Sdg Number: AIC300593

Client Sample ID:

FPS10-053

Lab Sample ID:

200-4492-1

Client Matrix:

Solid

Date Sampled: 03/28/2011 1505

Date Received: 04/01/2011 1104

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16138

Instrument ID:

D422_import

N/A

Prep Batch:

N/A

Lab File ID:

200-4492-A-1.txt

Dilution:

1.0

Initial Weight/Volume:

135.25 g

Analysis Date:

04/04/2011 2024

Prep Date:

N/A

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | Qualifier | NONE | NONE |
|-------------|--------------------|------------|-----------|------|------|
| Gravel | | 0.0 | | | |
| Sand | | 16.1 | | | |
| Coarse Sand | | 0.5 | | | |
| Medium Sand | | 2.0 | | | |
| Fine Sand | | 13.6 | | | |
| Silt | | 70.4 VB | | | |
| Clay | | 13.5 | | | |

Client: TestAmerica Laboratories, Inc.

Job Number: 200-4528-1

Sdg Number: A1C310607

Client Sample ID:

FPS10-066

Lab Sample ID:

200-4528-1

Client Matrix:

Solid

Date Sampled: 03/31/2011 1125

Date Received: 04/02/2011 0930

D422 Grain Size

Analysis Method:

D422

Analysis Batch:

200-16270

Instrument ID:

D422_import

N/A

Prep Batch:

N/A

Lab File ID:

200-4528-A-1,txt

Dilution:

1.0

Initial Weight/Volume:

133.97 g

Analysis Date:

04/05/2011 2135

Prep Date:

N/A

Final Weight/Volume:

| Analyte | DryWt Corrected: N | Result (%) | | Qualifier | NONE | NONE |
|-------------|--|------------|--|--|------|------|
| Gravel | - The state of the | 0.0 | THE ALABAM AMARIA WAS THE COMPANYING BALLS | CC 10.02.02.000000000000000000000000000000 | | |
| Sand | | 36.5 | | | | |
| Coarse Sand | | 1.0 | | | | |
| Medium Sand | | 7.2 | | | | |
| Fine Sand | | 28.3 | 6 | | | |
| Silt | | 50.0 | 63 ⁵⁹ | | | |
| Clay | | 13.5 | w > | | | |

| Sample: Date Received: | 130669 04/27/2011 17:18 Begin: | Test: OEPA 590. Matrix SFF End: | | Collecte | d by: | 8080_0823-060111 OTHERS OTHER |
|---------------------------|--------------------------------------|----------------------------------|----------------|----------|--------|-------------------------------------|
| Date Collected: | - | 09/13/2010 14:25 | | Statio | | |
| Program: | NEDO-DERR | | (| Custome | эг ID: | |
| Client: | NEASE_MFLBC | | | Externa | al ID: | |
| Location: | FT10-12.5-WS-F | | | | | |
| | | | | Begin | | End |
| Aliquot: | 130669-FSHC-2 | | Prep Date: | 05/20/2 | 011 | 05/23/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 011 | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 58.2 | 29.8 | 3 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 66 | 38.8 | 110.4 | 1 | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | | | | | |
| QC / Sample Comments | | - | | | - | |
| Approved By | | On | | | | |

| Sample: | 130670 | Test: OEPA 590 |).1 | В | atch: | 8080_0823-060111 |
|-------------------------|--------------------|------------------|----------------|---------------------|--------|------------------|
| Date Received: | 04/27/2011 17:18 | Matrix SFF | | Collecte | d by: | OTHERS |
| | Begin: | End: | 9 | Sample ⁻ | Гуре: | OTHER |
| Date Collected: | | 09/13/2010 14:25 | | Statio | n ID: | |
| Program: | NEDO-DERR | | | Custome | er ID: | |
| Client: | NEASE_MFLBC | | | Externa | al ID: | |
| Location: | FT10-12.5-WS-0 | | | | | |
| | | | | Begin | _ | End |
| Aliquot: | 130670-FSHC-2 | | Prep Date: | 05/24/2 | 011 | 05/26/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 011 | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 189 | 99.6 | 10 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 59 | 38.8 | 110.4 | 1 | |
| r: | No. | | | | | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | · | | | | |
| QC / Sample Comments | | · | | | | |
| Approved By | | On | | | | |
| | | | | | | |

| 130671 | Test: OEPA 590 | .1 | В | atch: | 8080_0823-060111 |
|--|---|---|---|--|-------------------------------------|
| 04/27/2011 17:18 | Matrix SFF | • | Collecte | d by: | OTHERS |
| Begin: | End: | 9 | Sample [:] | Type: | OTHER |
| | 09/13/2010 14:25 | | Statio | n ID: | |
| NEDO-DERR | | | Custome | er ID: | |
| NEASE_MFLBC | | | Extern | al ID: | |
| FT10-12.5-CC-F | | | | | |
| | | | Begin | | End |
| 130671-FSHC-2 | | Prep Date: | 05/20/2 | 011 | 05/23/2011 |
| JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 011 | 05/27/2011 |
| <u>. </u> | CAS Number | Result | RL | Dil | Qualifier |
| | 002385-85-5 | 121 | 49.7 | 5 | |
| | % Recovery | Lower | Upper | Dil | Qualifier |
| -Hexabromobiphenyl | 80 | 38.8 | 110.4 | 1 | |
| Mirex requested | - | | | | · · · · |
| | | | | | |
| | | | | | |
| L | On | | | | |
| | 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-12.5-CC-F 130671-FSHC-2 JNAIYER Hexabromobiphenyl | 04/27/2011 17:18 Begin: 09/13/2010 14:25 NEDO-DERR NEASE_MFLBC FT10-12.5-CC-F 130671-FSHC-2 JNAIYER Units: ug/kg CAS Number 002385-85-5 % Recovery Hexabromobiphenyl Mirex requested | 04/27/2011 17:18 Matrix SFF Begin: End: 09/13/2010 14:25 NEDO-DERR 09/13/2010 14:25 NEASE_MFLBC FT10-12.5-CC-F Prep Date: 130671-FSHC-2 Prep Date: JNAIYER Units: ug/kg Analysis Date: CAS Number 002385-85-5 121 % Recovery Lower Lower Hexabromobiphenyl 80 38.8 Mirex requested | 04/27/2011 17:18 Matrix SFF Collected Begin: End: 99/13/2010 14:25 Station NEDO-DERR Custome Externs NEASE_MFLBC Externs Externs FT10-12.5-CC-F Frep Date: 05/20/2 JNAIYER Units: ug/kg Analysis Date: 05/25/2 CAS Number Result RL 49.7 We Recovery Lower Upper -Hexabromobiphenyl 80 38.8 110.4 Mirex requested | Matrix SFF Collected by: Begin: |

| 130672 | Test: OEPA 590 |).1 | В | atch: | 8080_0823-060111 |
|-------------------|---|-------------------------------|--|--|--|
| 04/27/2011 17:18 | Matrix SFF | | Collecte | d by: | OTHERS |
| Begin: | End: | \$ | Sample ` | Гуре: | OTHER |
| | 09/13/2010 14:25 | | Statio | n ID: | |
| NEDO-DERR | | • | Custome | er ID: | |
| NEASE_MFLBC | | | Externa | al ID; | |
| FT10-12.5-CC-O | | | | | |
| | | | Begin | | End |
| 130672-FSHC-2 | | Prep Date: | 05/23/2 | 011 | 05/25/2011 |
| JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 011 | 05/27/2011 |
| <u></u> | CAS Number | Result | RL | Dil | Qualifier |
| | 002385-85-5 | 444 | 193 | 20 | |
| | % Recovery | Lower | Upper | Dil | Qualifier |
| Hexabromobiphenyl | 52 | 38.8 | 110.4 | 1 | |
| Mirex requested | _ | | | | |
| 5 Fish | | | | | |
| | | | | | |
| | On | | | | |
| | 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-12.5-CC-O 130672-FSHC-2 JNAIYER Hexabromobiphenyl Mirex requested | 04/27/2011 17:18 Begin: End: | 04/27/2011 17:18 Matrix SFF Begin: End: \$ 09/13/2010 14:25 09/13/2010 14:25 NEDO-DERR NEASE_MFLBC FT10-12.5-CC-O Prep Date: 130672-FSHC-2 Prep Date: JNAIYER Units: ug/kg Analysis Date: CAS Number 002385-85-5 Result Was Recovery Lower Hexabromobiphenyl 52 38.8 Mirex requested | 04/27/2011 17:18 Matrix SFF Collected Begin: End: Sample 09/13/2010 14:25 Station NEDO-DERR Custome NEASE_MFLBC Externation FT10-12.5-CC-O Frep Date: 05/23/2 JNAIYER Units: ug/kg Analysis Date: 05/25/2 CAS Number Result RL 193 Was Recovery Lower Upper Hexabromobiphenyl 52 38.8 110.4 Mirex requested 5 Fish | NEDO-DERR Sample Type: 09/13/2010 14:25 Station ID: 09/13/2010 14:25 External ID: 05/25/2010 |

| | | o Duta Report | | | | |
|----------------------------------|--|---|------------------------------|---------------------------|-----------------------------------|---------------------------------|
| Date Collected: Program: | 04/27/2011 17:18 Begin: NEDO-DERR | Test: OEPA 590 Matrix SFF End: 09/13/2010 18:00 | Š | Collecte Sample Statio | d by: Type: n ID: er ID: | |
| | NEASE_MFLBC FT10-32.0-YB-F | | | Externa | al ID: | |
| Aliquot: Analyst: | 130673-FSHC-2 JNAIYER | Units: ug/kg | Prep Date: Analysis Date: | | | End 05/23/2011 05/27/2011 |
| Analytes Mirex | ··· | CAS Number 002385-85-5 | Result 324 | RL 99.8 | Dil 10 | Qualifier |
| Surrogate 2,2',4,4',5,5'- | -Hexabromobiphenyl | % Recovery 85 | Lower 38.8 | Upper 110.4 | Dil 1 | Qualifier |
| Field Comments | Mirex requested | | | | _ | |
| ab Comments | jar | | | | | |
| QC / Sample Comments | | | | | | |
| Approved By | ,, | On | | | | Travia de |

| | | <u> </u> | | | | · · · · · · · · · · · · · · · · · · · |
|-----------------------|-------------------|---------------------|-------------------|----------|--------|---------------------------------------|
| Sample: | 130674 | Test: OEPA 590 | .1 | В | atch: | 8080_0823-060111 |
| Date Received: | 04/27/2011 17:18 | Matrix SFF | | Collecte | d by: | OTHERS |
| | Begin: | End: | \$ | Sample ` | Type: | OTHER |
| Date Collected: | | 09/13/2010 18:00 | | Statio | n ID: | |
| Program: | NEDO-DERR | | (| Custome | er ID: | |
| | NEASE_MFLBC | | | Extern | al ID: | |
| Location: | FT10-32.0-YB-O | | | | | |
| | | | - :: - | Begin | | End |
| Aliquot: | 130674-FSHC-2 | | Prep Date: | 05/20/2 | 2011 | 05/23/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 2011 | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 1650 | 497 | 50 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5'- | Hexabromobiphenyl | 79 | 38.8 | 110.4 | 1 | |
| | | | | | | |
| ield Comments | Mirex requested | | | | | |
| ab Comments | jar | | | | | · · |
| C / Sample omments | | | | | | |
| pproved By | | On | 1 | | | |

| Date Collected: Program: | 04/27/2011 17:18 Begin: NEDO-DERR | Test: OEPA 590 Matrix SFF End: 09/13/2010 18:00 | | Collecte Sample 1 Statio Custome | d by: Type: n ID: :r ID: | |
|-----------------------------|---|---|------------------------------|---|-----------------------------------|-----------------------|
| 1 | NEASE_MFLBC FT10-32.0-WS-F | | | Externa | al ID: | |
| Aliquot: Analyst: | 130675-FSHC-2 \ 1 JNAIYER | Units: ug/kg | Prep Date: Analysis Date: | | | • • |
| Analytes Mirex | | CAS Number 002385-85-5 | Result 286 | RL 99.4 | Dil 10 | Qualifier |
| Surrogate | -Hexabromobiphenyl | % Recovery | Lower 38.8 | Upper 110.4 | Dil 1 | Qualifier |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | | | | | |
| QC / Sample Comments | Sample used as MSD. To amount of spike used, | here is too much mirex in t | he sample to obta | ain an ac | ceptal | ole recovery with the |
| Approved By | | On | | | | |

| Date Collected: Program: Client: | 130676 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-32.0-WS-O | Test: OEPA 590. Matrix SFF End: 09/13/2010 18:00 | S | Collecte | d by: Type: n ID: er ID; | 8080_0823-060111 OTHERS OTHER |
|--|---|---|----------------|----------|-----------------------------------|-------------------------------------|
| | | • | | Begin | | End |
| | 130676-FSHC-2 | - | Prep Date: | | | 05/23/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 2011 | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 1470 | 499 | 50 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 48 | 38.8 | 110.4 | 1 | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | | | | | |
| QC / Sample Comments | | | | | | |
| Approved By | | On | | | | |

| Sample: | 130677 | Test: OEPA 590 | .1 | R | atch | 8080_0823-060111 |
|-------------------------|-------------------|---------------------|----------------|---------|--------|------------------|
| _ | 04/27/2011 17:18 | Matrix SFF | | | | OTHERS |
| | Begin: | End: | | | | OTHER |
| Date Collected: | • | 09/13/2010 18:00 | | Statio | | |
| Program: | NEDO-DERR | , , | (| Custome | er ID; | |
| Client: | NEASE_MFLBC | | | Extern | al ID: | |
| Location: | FГ10-32.0-СС-F | | | | | |
| | | | | Begin | | End |
| Aliquot: | 130677-FSHC-2 | | Prep Date: | 05/23/2 | 2011 | 05/25/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 2011 | 05/27/2011 |
| Analytes | · · | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 516 | 194 | 20 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5'- | Hexabromobiphenyl | 62 | 38.8 | 110.4 | 1 | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | | | | | |
| QC / Sample Comments | | | | · | | |
| Approved By | | On | | | | |

| Date Collected: Program: Client: | 130678 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-32.0-CC-O | Test: OEPA 590 Matrix SFF End: 09/13/2010 18:00 | \$ | Collecte | ed by: Type: on ID: er ID: | |
|--|---|---|------------------------------|--|-------------------------------------|---------------------------------|
| Aliquot: Analyst: | 130678-FSHC-2 JNAIYER | Units: ug/kg | Prep Date: Analysis Date: | | | End 05/26/2011 05/27/2011 |
| Analytes Mirex | | CAS Number 002385-85-5 | Result 1300 | RL 498 | Dil 50 | Qualifier |
| Surrogate 2,2',4,4',5,5' | -Hexabromobiphenyl | % Recovery 53 | Lower 38.8 | Upper 110.4 | Dil 1 | Qualifier |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | 2 fish | | | | | |
| QC / Sample Comments | | | | ······································ | | |
| Approved By | | On | | | | |

| | | | | | | |
|-------------------------|--------------------|---------------------|----------------|----------|--------|------------------|
| Sample: | 130680 | Test: OEPA 590 | .1 | В | atch: | 8080_0823-060111 |
| Date Received: | 04/27/2011 17:18 | Matrix SFF | • | Collecte | d by: | OTHERS |
| | Begin: | End: | 5 | iample ' | Type: | OTHER |
| Date Collected: | | 09/14/2010 09:15 | | Statio | n ID: | |
| Program: | NEDO-DERR | | | Custome | er ID; | |
| Client: | NEASE_MFLBC | | | Extern | al ID: | |
| Location: | FT10-33.3-WS-O | | | | | |
| · | | | | Begin | | End |
| Aliquot: | 130680-FSHC-2 | | Prep Date: | 05/23/2 | 2011 | 05/25/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 2011 | 05/27/2011 |
| Analytes | - | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 1020 | 484 | 50 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 55 | 38.8 | 110.4 | _1 | |
| ield Comments | Mirex requested | | | | | |
| ab Comments | | | | | | |
| QC / Sample Comments | | | | | | - |
| Approved By | PROPERTY OF STREET | On | | | | - 19141 |

| | <u>.</u> | | | | | |
|-------------------------|--------------------|------------------|----------------|-----------|--------|------------------|
| Sample: | 130681 | Test: OEPA 590 | .1 | В | atch: | 8080_0823-060111 |
| Date Received: | 04/27/2011 17:18 | Matrix SFF | 1 | Collecte | d by: | OTHERS |
| | Begin: | End: | 9 | Sample ' | Гуре: | OTHER |
| Date Collected: | | 09/14/2010 09:15 | | Statio | n ID: | |
| Program: | NEDO-DERR | | (| Custome | er ID: | |
| Client: | NEASE_MFLBC | | | Externa | al ID: | |
| Location: | FT10-33.3-WS-F | | | | | |
| | | | | Begin | | End |
| Aliquot: | 130681-FSHC-2 | | Prep Date: | 05/23/2 | 011 | 05/25/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 011 | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | <u> </u> | 002385-85-5 | 130 | 49.2 | 5 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 59 | 38.8 | 110.4 | 1 | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | <u> </u> | | | | |
| QC / Sample Comments | | | | <u> 1</u> | • | |
| Approved By | | On | | | | |

| | | <u>F</u> | | | | | | |
|-------------------------|--------------------|---------------------|----------------|----------|--------|------------------|--|--|
| Sample: | | Test: OEPA 590 | | | | 8080_0823-060111 | | |
| Date Received: | 04/27/2011 17:18 | Matrix SFF | • | Collecte | d by: | OTHERS | | |
| | Begin: | End: | | iample ' | Гуре: | ÖTHER | | |
| Date Collected: | | 09/14/2010 09:15 | | Statio | n ID: | | | |
| Program: | NEDO-DERR | | Customer ID; | | | | | |
| Client: | NEASE_MFLBC | | | Extern | al ID: | | | |
| Location: | FT10-33.3-CC-F | | | | | | | |
| | | | | Begin | _ | End | | |
| Aliquot: | 130682-FSHC-2 | | Prep Date: | 05/23/2 | 011 | 05/25/2011 | | |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 011 | 05/27/2011 | | |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier | | |
| Mirex | | 002385-85-5 | 1220 | 498 | 50 | | | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier | | |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 65 | 38.8 | 110.4 | 1 | | | |
| Field Comments | Mirex requested | | | | | | | |
| | | | | | | | | |
| Lab Comments | jar | | | | | | | |
| QC / Sample Comments | | | | | | | | |
| Approved By | | On _ | | | | | | |

| Sample: Date Received: | 130683 04/27/2011 17:18 Begin: | Test: OEPA 590 Matrix SFF End: | | Collecte | d by: | 8080_0823-060111 OTHERS OTHER |
|---------------------------|--------------------------------------|--------------------------------------|----------------|----------|--------|-------------------------------------|
| Date Collected: | _ | 09/14/2010 12:00 | | Statio | n ID: | |
| Program: | NEDO-DERR | | | Custome | er ID: | |
| Client: | NEASE MFLBC | | | Externa | al ID: | |
| Location: | FT10-35.4-WS-F | | | | | |
| | · · · · · · | | | Begin | | End |
| Aliquot: | 130683-FSHC-2 \ 1 | | Prep Date: | 05/24/2 | 2011 | 05/26/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 2011 | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 151 | 99.7 | 10 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 45 | 38.8 | 110.4 | 1 | |
| Field Comments | Mirex requested | | <u> </u> | | | |
| Lab Comments | | · | | | | |
| QC / Sample Comments | | | | | | |
| Approved By | | On | | | | |

Sample: 130684 **Test:** OEPA 590.1 Batch: 8080_0823-060111 **Matrix** SFF Collected by: OTHERS Date Received: 04/27/2011 17:18 Sample Type: OTHER Begin: End: Date Collected: 09/14/2010 12:00 Station ID: Program: NEDO-DERR **Customer ID:** Client: NEASE_MFLBC External ID: Location: FT10-35.4- YB F Begin End Aliquot: 130684-FSHC-2 Prep Date: 05/23/2011 05/25/2011 Analyst: JNAIYER Units: ug/kg **Analysis Date:** 05/25/2011 05/27/2011 **Analytes CAS Number** Result RL Dil Qualifier Mirex 002385-85-5 200 99.5 10 Surrogate Dil Qualifier % Recovery Lower Upper 2,2',4,4',5,5'-Hexabromobiphenyl 38.8 110.4 55 **Field Comments** Mirex requested **Lab Comments** QC / Sample Comments **Approved By** On

| eived: ected: gram: | 130685 04/27/2011 17:18 Begin: | Matrix End: | OEPA 590 SFF | | Collecte | | 8080_0823-060111 OTHERS |
|---------------------------|--------------------------------------|---|---|---|--|---------------------|----------------------------|
| ected: gram: | Begin: | End: | SFF | | | d by: | OTHERS |
| gram: | _ | | | | _ | | |
| gram: | NEDO OFFI | 09/14/20 | | • | Sample ' | Гуре: | OTHER |
| - | NEDO OFFID | , - 1, LO. | LO 12:00 | | Statio | n ID: | |
| - | NEDO-DERR | | | • | Custome | r ID: | |
| lient: | NEASE_MFLBC | | | | Externa | al ID: | |
| ation: | FT10-35.4-YB-O | | | | | | |
| | | | · | | Begin | | End |
| iquot: | 130685-FSHC-2 | | | Prep Date: | 05/24/2 | 011 | 05/26/2011 |
| alyst: | JNAIYER | Units: ug/ | kg | Analysis Date: | 05/25/2 | 011 | 05/27/2011 |
| ytes | _ | CAS Nu | mber | Result | RL | Dil | Qualifier |
| | | 002385- | 85-5 | 1270 | 499 | 50 | |
| ogate | | % Rec | overy | Lower | Upper | Dil | Qualifier |
| ,4',5,5'- | Hexabromobiphenyl | 41 | | 38.8 | 110.4 | 1 | |
| ents | Mirex requested | | | | | | |
| nts | | | | | | | |
| e | | | | | | | |
| y | | On | | | | | |
| | ogate ,4',5,5' ents | pgate ,4',5,5'-Hexabromobiphenyl ents Mirex requested nts | alyst: JNAIYER Units: ug/ ytes CAS Nu 002385- ogate % Reco ,4',5,5'-Hexabromobiphenyl 41 ents Mirex requested nts | alyst: JNAIYER Units: ug/kg /tes CAS Number 002385-85-5 Ogate % Recovery /4',5,5'-Hexabromobiphenyl 41 ents Mirex requested nts | alyst: JNAIYER CAS Number Result 002385-85-5 1270 Degate A',5,5'-Hexabromobiphenyl Mirex requested Mirex requested CAS Number Result 002385-85-5 1270 Recovery Lower 41 38.8 | Quot: 130685-FSHC-2 | Quot: 130685-FSHC-2 |

| | | <u>_</u> | | | | |
|------------------------|-------------------|---------------------|--|--------------------------|--------|------------------|
| Sample: | 130687 | Test: OEPA 590 | 1 | В | atch: | 8080_0823-060111 |
| Date Received: | 04/27/2011 17:18 | Matrix SFF | | Collecte | d by: | OTHERS |
| | Begin: | End: | 5 | Sample ' | Туре: | OTHER |
| Date Collected: | | 09/14/2010 15:30 | | Statio | n ID: | |
| Program: | NEDO-DERR | | | Custome | er ID; | |
| Client: | NEASE_MFLBC | | | Extern | al ID: | |
| Location: | FT10-36.7 WS-O- | | | | | |
| | <u> </u> | | | Begin | | End |
| Aliquot: | 130687-FSHC-2 | | Prep Date: | 05/23/2 | 2011 | 05/25/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | nalysis Date: 05/25/2011 | | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 1420 | 489 | 50 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | Hexabromobiphenyl | 79 | 38.8 | 110.4 | 1 | |
| field Comments | Mirex requested | | | | | |
| ab Comments | jar | | | | | |
| C / Sample Comments | | - | ······································ | | | |
| Approved By | | On | | | | |

| | | | | | | |
|-------------------------|--------------------|---|----------------|------------|--------|------------------|
| Sample: | 130688 | Test: OEPA 590 | .1 | В | atch: | 8080_0823-060111 |
| Date Received: | 04/27/2011 17:18 | Matrix SFF | | Collecte | d by: | OTHERS |
| | Begin: | End: | 5 | - | | OTHER |
| Date Collected: | | 09/14/2010 15:30 | | Statio | n ID: | |
| Program: | NEDO-DERR | | (| Customo | ег ID: | |
| | NEASE_MFLBC | | | Extern | al ID: | |
| Location: | FT10-36.7 WS-F | | | | | |
| | | | | Begin | | End |
| Aliquot: | 130688-FSHC-2 | | Prep Date: | 05/23/2 | 2011 | 05/25/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2011 | | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 194 | 96.4 | 10 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5 <u>,5</u> ' | -Hexabromobiphenyl | 56 | 38.8 | 110.4 | 1 | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | jar | - Padd a 11889 (1900) and dame to 1 to add date amount ones bands (a W 1189). | | | | |
| QC / Sample Comments | | | - | | | |
| Approved By | | On | | | | |

| Client: | | Test: OEPA 590 Matrix SFF End: 09/14/2010 17:00 | | | d by: | 8080_0823-060111 OTHERS |
|--|-------------------|--|----------------|----------|----------|----------------------------|
| Date Collected: Program: Client: | Begin: | End: | | | - | |
| Program: Client: | _ | | S | iample i | Tyne: | OTUED |
| Program: Client: | NEDO-DERR | 09/14/2010 17:00 | | | ,) bei | UITEK |
| Client: | NEDO-DERR | | | Statio | n ID: | |
| | | | | Custome | г ID: | |
| Location: | NEASE_MFLBC | | | Externa | d ID: | |
| | FT10-37.5 WS-O | | | | | |
| | | | | Begin | | End |
| Aliquot: | 130689-FSHC-2 | | Prep Date: | 05/24/2 | 011 | 05/26/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 011 | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 341 | 200 | 20 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5'- | Hexabromobiphenyl | 56 | 38.8 | 110.4 | 1 | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | | | | <u> </u> | |
| QC / Sample Comments | | | | | | |
| Approved By | | On | | | | |

| Sample: | 130690 | Test: OEPA 590 | .1 | В | atch: | 8080_0823-060111 |
|-------------------------|-------------------|---------------------|-----------------------|--------------------------|--------|------------------|
| Date Received: | 04/27/2011 17:18 | Matrix SFF | (| Collecte | d by: | OTHERS |
| | Begin: | End: | 5 | Sample 1 | Гуре: | OTHER |
| Date Collected: | | 09/14/2010 08:30 | | Statio | n ID; | |
| Program: | NEDO-DERR | | | | | |
| Client: | NEASE_MFLBC | | | Externa | al ID: | |
| Location: | FT10-38.4 WS-F | | | | | |
| | | | | Begin | | End |
| Aliquot: | 130690-FSHC-2 | | Prep Date: 05/20/2011 | | | 05/23/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | nalysis Date: 05/25/2011 | | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | <9.9 | 9.9 | 1 | |
| Fi-14 C | National value of | | | | | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | • | | | | |
| QC / Sample Comments | | | | | | |
| Approved By | | | <u> </u> | | | |

| Date Collected: Program: Client: | 130691 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-38.4 WS-0 | Test: OEPA 590 Matrix SFF End: 09/14/2010 08:30 | | Collecte | d by: Type: n ID: er ID: | 8080_0823-060111 OTHERS OTHER |
|--|---|---|----------------|--------------------|-----------------------------------|-------------------------------------|
| Aliquot: | 130691-FSHC-2 | | Prep Date: | Begin 05/24/2 | 011 | End 05/26/2011 |
| Analyst: | | Units: ug/kg | Analysis Date: | | | 05/27/2011 |
| Analytes Mirex | | CAS Number 002385-85-5 | Result | RL 9,9 | Dil 1 | Qualifier |
| Surrogate | -Hexabromobiphenyl | % Recovery | Lower 38.8 | Upper 110.4 | Dil 1 | Qualifier |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | <u></u> | | | | |
| QC / Sample Comments | | | | | | |
| Approved By | | On | | | | |

| | Sample Analysi | s Data Keport | | | | |
|------------------------|--------------------|------------------|----------------------------------|-----------------|------------|-----------------|
| Sample: | 130692 | Test: OEPA 590 | .1 | В | atch: | 8080_0823-06011 |
| Date Received: | 04/27/2011 17:18 | Matrix SFF | Collected by: | | OTHERS | |
| | Begin: | End: | Sample Type: | | | OTHER |
| Date Collected: | | 09/14/2010 12:00 | Station ID: | | | |
| Program: | NEDO-DERR | | | Custome | r ID: | |
| Client: | NEASE_MFLBC | | | Externa | al ID: | |
| Location: | FT10-35.4 WS-O | | | | | |
| | | | | Begin | | End |
| Aliquot: | 130692-FSHC-2 | | Prep Date: | 05/24/2 | 011 | 05/26/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: 05/25/2011 | | 05/27/2011 | |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 889 | 4 97 | 50 | |
| Surrogate | | % Recovery | Lower | Upper | Dij | Qualifier |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 50 | 38.8 | 110.4 | 1 | |
| ield Comments | Mirex requested | | | | | |
| ab Comments | | | | - | - | |
| C / Sample comments | | | | | | |
| pproved By | | On | | | | |

| Sample: | 130693 | Test: OEPA 590 | .1 | В | atch: | 8080_0823-060111 |
|-------------------------|--------------------|------------------|----------------|----------|--------|------------------|
| Date Received: | 04/27/2011 17:18 | Matrix SFF | | Collecte | d by: | OTHERS |
| | Begin: | End: | 9 | Sample ' | Түре: | OTHER |
| Date Collected: | | 09/14/2010 17:00 | | Statio | n ID: | |
| Program: | NEDO-DERR | | (| Customo | er ID: | |
| Client: | NEASE_MFLBC | | | Extern | al ID: | |
| Location: | FT10-37.5 WS-F | | | | | |
| · | | | | Begin | | End |
| Aliquot: | 130693-FSHC-2 \ 1 | | Prep Date: | 05/23/2 | 2011 | 05/25/2011 |
| Analyst: | JNAIYER | Units: ug/kg | Analysis Date: | 05/25/2 | 2011 | 05/27/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 58.1 | 19.6 | 2 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 50 | 38.8 | 110.4 | 1 | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | | | | | |
| QC / Sample Comments | | | | | | |
| Approved By | | On | | | | |

| | Sumple Analysis | Data Itopo | •• | | | | |
|--|--|-------------------------------------|-------|----------------|-------------|--------------------------|-----------------|
| Date Collected: Program: Client: | 130694 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-33.3-CC-O L7NX-6 | Test: Matrix End: 09/14/20 | | - \$ | Collecte | Type: n ID: er ID: | OTHERS OTHER |
| | · · · · · · · · · · · · · · · · · · · | | | | Begin | | End |
| Aliquot: | 130694-FSHC-2 | | | Prep Date: | 05/24/2 | 011 | 05/26/2011 |
| Analyst: | JNAIYER | Units: ug/ | kg | Analysis Date: | 05/25/2 | 011 | 05/27/2011 |
| Analytes | | CAS Nu | ımber | Result | RL | Dil | Qualifier |
| Mirex | | 002385 | 85-5 | 3380 | 991 | 100 | |
| Surrogate | | % Rec | overy | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | -Hexabromobiphenyl | 68 | | 38.8 | 110.4 | 1 | |
| ield Comments | Mirex requested | _ | | | | | |
| ab Comments | L7NX6 008,004,005,006 c | omposite 4 ja | rs | | | | |
| 2C / Sample Comments | | | | | | | |

On

Qualifier: * Outside acceptance limits

Approved By

| Sample: Date Received: | 130686 04/27/2011 17:18 Begin: | Test: OEPA 590.1 Matrix SFF End: | | Collecte | d by: | 8080_0824-060711 OTHERS OTHER |
|---------------------------|---|--|----------------|----------|--------|-------------------------------------|
| Date Collected: | | 09/14/2010 15:30 | | Statio | n ID: | |
| Program: | NEDO-DERR | | (| Custome | r ID: | |
| Client: | NEASE_MFLBC | | | Externa | il ID: | • |
| Location: | FT10-36.7 YB-O | | | | | |
| | · | | | Begin | | End |
| Aliquot: | 130686-FSHC-2 | | Prep Date: | 06/02/2 | 011 | 06/06/2011 |
| Analyst: | JNAIYER | Units: ug/kg A | Analysis Date: | 06/06/2 | 011 | 06/06/2011 |
| Analytes | | CAS Number | Result | RL | Dil | Qualifier |
| Mirex | | 002385-85-5 | 744 | 249 | 25 | |
| Surrogate | | % Recovery | Lower | Upper | Dil | Qualifier |
| 2,2',4,4',5,5' | Hexabromobiphenyl | 42 | 38.8 | 110.4 | 1 | |
| Field Comments | Mirex requested | . | | | | |
| Lab Comments | | | | | | |
| QC / Sample Comments | | 20.00 | | | | |
| Approved By | SROBERTS | On 06/0 | 08/2011 | | | |

| Sample: | 130669 | Te | st: OEPA 58: | 1.5 | Batch: | ORGLIP_0533-052411 |
|-------------------------|------------------|-----------|--------------|----------------|---------------------|--------------------|
| Date Received: | 04/27/2011 17:18 | Mat | trix SFF | | Collected by: | OTHERS |
| | Begin: | End: | | 5 | Sample Type: | OTHER |
| Date Collected: | | 09/13 | 3/2010 14:25 | | Station ID: | |
| Program: | NEDO-DERR | | | (| Customer ID: | |
| Client: | NEASE_MFLBC | | | | External ID: | |
| Location: | FT10-12.5-WS-F | | | | | |
| | | | | | Begin | End |
| Aliquot: | 130669-FSHC-1 | Dilution: | 1 | Prep Date: | 05/21/2011 | 05/21/2011 |
| Analyst: | JALEXANDER | Units: | % | Analysis Date: | 05/21/2011 | 05/21/2011 |
| Analytes | | CAS | S Number | Result | RL | Qualifier |
| %Lipids | | N/A | | 0.437 | | |
| | | | | | | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | | | | | |
| QC / Sample Comments | | | | | | |
| Approved By | SROBERTS | On | 06 | 5/01/2011 | · | |

| Date Collected: Program: Client: | 130671 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-12.5-CC-F | Test: OEPA 581 Matrix SFF End: 09/13/2010 14:25 | \$ | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | |
|--|---|---|------------------------------|--|---------------------------------|
| • | 130671-FSHC-1 JALEXANDER | Dilution: 1 Units: % | Prep Date: Analysis Date: | Begin 05/21/2011 05/21/2011 | End 05/21/2011 05/21/2011 |
| Analytes %Lipids | | CAS Number N/A | Result 3.31 | RL | Qualifier |
| Field Comments | Mirex requested | | | | |
| Lab Comments | | | | | |
| QC / Sample Comments | | | | | |
| Annroved Rv | SPORERTS | | /01/2011 | | |

| Date Collected: Program: Client: | 04/27/2011 17:18 Begin: | Test: OEI Matrix SFF End: 09/13/2010 1: | s 8:00 | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | |
|--|----------------------------|--|----------------|--|----------------|
| | ; <u></u> | ··· | | Begin | End |
| Aliquot: | 130673-F\$HC-1 | Dilution: 1 | Prep Date: | 05/21/2011 | 05/21/2011 |
| Analyst: | JALEXANDER | Units: % | Analysis Date: | 05/21/2011 | 05/21/2011 |
| Analytes | | CAS Numbe | er Result | RL | Qualifier |
| %Lipids | | N/A | 1.23 | | |
| Field Comments | Mirex requested | | _ | | . |
| Lab Comments | jar | | | | |
| QC / Sample Comments | | | | | |
| Approved By | SROBERTS | | 06/01/2011 | | :- |

| Sample: | 130674 | Test: OEPA 58 | 31.5 | Batch: | ORGLIP_0533-052411 |
|-------------------------|------------------|------------------|----------------|---------------|--------------------|
| Date Received: | 04/27/2011 17:18 | Matrix SFF | • | Collected by: | |
| | Begin: | End: | S | ample Type: | OTHER |
| Date Collected: | | 09/13/2010 18:00 | | Station ID: | |
| Program: | NEDO-DERR | | | Customer ID: | |
| Client: | NEASE_MFLBC | | | External ID: | |
| Location: | FT10-32.0-YB-O | | | | |
| | | | | Begin | End |
| Aliquot: | 130674-FSHC-1 | Dilution: 1 | Prep Date: | 05/21/2011 | 05/21/2011 |
| Analyst: | JALEXANDER | Units: % | Analysis Date: | 05/21/2011 | 05/21/2011 |
| Analytes | | CAS Number | Result | RL | Qualifier |
| %Lipids | | N/A | 5.58 | | |
| | No. | | - | | |
| Field Comments | Mirex requested | | | | |
| Lab Comments | jar | | | | |
| QC / Sample Comments | | | | | |
| Approved By | SROBERTS | | 06/01/2011 | | <u> </u> |

Sample: 130675 **Test:** OEPA 581.5 Batch: ORGLIP_0533-052411 Matrix SFF Collected by: OTHERS Date Received: 04/27/2011 17:18 Sample Type: OTHER Begin: End: Date Collected: 09/13/2010 18:00 Station ID: Program: NEDO-DERR **Customer ID:** Client: NEASE_MFLBC **External ID:** Location: FT10-32.0-WS-F Begin End Aliquot: 130675-FSHC-1 Dilution: 1 **Prep Date:** 05/21/2011 05/21/2011 Analyst: JALEXANDER Units: % **Analysis Date:** 05/21/2011 05/21/2011 **Analytes CAS Number** Result Qualifier 0.785 %Lipids N/A **Field Comments** Mirex requested **Lab Comments** Sample used as MSD. There is too much mirex in the sample to obtain an acceptable recovery with the QC / Sample Comments amount of spike used. **Approved By** SROBERTS 06/01/2011 On

| Sample: Date Received: Date Collected: | 130676 04/27/2011 17:18 Begin: | Test: OI Matrix SF End: 09/13/2010 | S | Batch: Collected by: Sample Type: Station ID: | |
|--|--------------------------------------|---|------------------------------|--|---------------------------------|
| | NEDO-DERR | 05, 15, 2010 | | Customer ID: | |
| | NEASE_MFLBC FT10-32.0-WS-O | | | External ID: | |
| · • | 130676-FSHC-1 JALEXANDER | Dilution: 1 Units: % | Prep Date: Analysis Date: | Begin 05/21/2011 05/21/2011 | End 05/21/2011 05/21/2011 |
| Analytes %Lipids | | CAS Num N/A | ber Result 3.43 | RL | Qualifier |
| Field Comments | Mirex requested | - · | | | |
| Lab Comments | | · | | · · | |
| QC / Sample Comments | | | | | |
| Annroved Rv | SROBERTS | | 06/01/2011 | | |

| Sample: | 130690 | Test: | OEPA 581.5 | | Batch: | ORGLIP_0533-052411 |
|-------------------------|------------------|-------------|------------|---------------|---------------|--------------------|
| Date Received: | 04/27/2011 17:18 | Matrix | SFF | | Collected by: | OTHERS |
| | Begin: | End: | | 5 | Sample Type: | OTHER |
| Date Collected: | | 09/14/20 | 10 08:30 | | Station ID: | |
| Program: | NEDO-DERR | | | | Customer ID: | |
| Client: | NEASE_MFLBC | | | | External ID: | |
| Location: | FT10-38.4 WS-F | | | | | |
| _ | | | | | Begin | End |
| Aliquot: | 130690-FSHC-1 | Dilution: 1 | | Prep Date: | 05/21/2011 | 05/21/2011 |
| Analyst: | JALEXANDER | Units: % | A | nalysis Date: | 05/21/2011 | 05/21/2011 |
| Analytes | | CAS No | ımber | Result | RL | Qualifier |
| %Lipids | | N/A | | 1.38 | | |
| | Miner | | | | | |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | | | | | | |
| QC / Sample Comments | | - | | | | |
| Annroved Rv | SROBERTS | | 06/0 | 1/2011 | | |

| Date Collected: Program: Client: | 130672 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-12.5-CC-O | Test: Matrix End: 09/13/20 | | \$ | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | |
|--|---|-------------------------------------|-------|----------------|--|--------------|
| | 130672-FSHC-1 CRHINOCK | Dilution: 1 Units: % | A | • | Begin 05/24/2011 05/24/2011 | • |
| Analytes %Lipids | | CAS Nu N/A | ımber | Result 8,69 | RL | Qualifier |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | 5 Fish | | | · | _ | |
| QC / Sample Comments | | | | | | |
| Approved By | SROBERTS | On | 06/0 | 1/2011 | | |

| Date Collected: Program: Client: | 130677 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-32.0-CC-F | Test: OEPA 581 Matrix SFF End: 09/13/2010 18:00 | s C | Batch: Collected by: ample Type: Station ID: customer ID: External ID: | |
|--|---|--|----------------|---|------------|
| | | | | Begin | End |
| | 130677-FSHC-1 | Dilution: 1 | • | 05/24/2011 | 05/24/2011 |
| Analyst: | CRHINOCK | Units: % | Analysis Date: | 05/24/2011 | 05/24/2011 |
| Analytes | | CAS Number | Result | RL | Qualifier |
| %Lipids | | N/A | 1.15 | | |
| Field Comments | Mirex requested | | | | |
| QC / Sample Comments | | | | · | |
| Approved By | SROBERTS | On 06, | /01/2011 | | |

| Date Collected: Program: Client: | 04/27/2011 17:18 Begin: | Test: Matrix End: 09/14/20 | | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | OTHER |
|--|----------------------------|-------------------------------------|--------------|--|---------------------------------|
| · • | 130680-FSHC-1 CRHINOCK | Dilution: 1 Units: % | = | Begin te: 05/24/2011 te: 05/24/2011 | End 05/24/2011 05/24/2011 |
| Analytes %Lipids | | CAS Nu N/A | umber Result | | Qualifier |
| Field Comments | Mirex requested | | | | |
| Lab Comments | | | ··· | | |
| QC / Sample Comments | | | | | |
| Approved By | SROBERTS | On | 06/01/2011 | | |

| Date Collected: Program: Client: | 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC | Test: OEPA 5 Matrix SFF End: 09/14/2010 09:1 | s S | Batch: Collected by: ample Type: Station ID: ustomer ID: External ID: | |
|--|--|--|------------------------------|--|-----------|
| Location: | FT10-33.3-WS-F | | | | |
| l | 130681-FSHC-1 CRHINOCK | Dilution: 1 Units: % | Prep Date: Analysis Date: | Begin 05/24/2011 05/24/2011 | • • |
| Analytes %Lipids | | CAS Number N/A | Result 0,640 | RL | Qualifier |
| Field Comments | Mirex requested | | , | | |
| Lab Comments | | | | | |
| QC / Sample Comments | | | | | |
| Approved By | SROBERTS | On | 06/01/2011 | | |

| Date Collected: Program: Client: | 04/27/2011 17:18 Begin: | Mat End: | est: OEPA 58 rix SFF 1/2010 09:15 | | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | OTHER |
|--|----------------------------|---------------------|---|------------------------------|--|--|
| 1 | 130682-FSHC-1 CRHINOCK | Dilution: Units: | | Prep Date: Analysis Date: | | End 05/24/2011 05/24/2011 |
| Analytes %Lipids | | CAS N/A | Number | Result 1.53 | RL. | Qualifier |
| Field Comments | Mirex requested | | | | | |
| Lab Comments | jar | · | | | | |
| QC / Sample Comments | | | - | | | - |
| Approved By | SROBERTS | 00 | 0 | 6/01/2011 | | |

| Date Collected: Program: Client: | 04/27/2011 17:18 Begin: | Test: OEPA 581 Matrix SFF End: 09/14/2010 12:00 | S | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | OTHER |
|--|----------------------------|---|------------------------------|--|---------------------------------|
| • | 130684-FSHC-1 CRHINOCK | Dilution: 1 Units: % | Prep Date: Analysis Date: | Begin 05/24/2011 05/24/2011 | End 05/24/2011 05/24/2011 |
| Analytes %Lipids | | CAS Number N/A | Result 0.666 | RL | Qualifier |
| Field Comments | Mirex requested | | | | |
| Lab Comments | | | | | |
| QC / Sample Comments | | | | | |
| Approved By | SROBERTS | 0: 00 | 5/01/2011 | | |

| Date Collected: Program: Client: | 130687 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-36.7 WS-O- | Test: OEPA 581 Matrix SFF End: 09/14/2010 15:30 | | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID; | OTHER |
|--|--|---|------------------------------|--|---------------------------------------|
| · | 130687-FSHC-1 CRHINOCK | Dilution: 1 Units: % | Prep Date: Analysis Date: | Begin 05/24/2011 05/24/2011 | End 05/24/2011 05/24/2011 |
| Analytes %Lipids | | CAS Number N/A | Result 4.63 | RL | Qualifier |
| Field Comments | Mirex requested | | | | <u>.</u> |
| Lab Comments | jar | | | | |
| QC / Sample Comments | | | | | |
| Approved By | SROBERTS | | 5/01/2011 | | · · · · · · · · · · · · · · · · · · · |

| Sample: | 130688 | Te | st: OEPA 58 | 1.5 | Batch: | ORGLIP_0534-052511 |
|-------------------------|---------------------|-----------|-------------|----------------|---------------|--------------------|
| Date Received: | 04/27/2011 17:18 | Mat | trix SFF | | Collected by: | OTHERS |
| | Begin: | End: | | 5 | Sample Type: | OTHER |
| Date Collected: | | 09/14 | /2010 15:30 | | Station ID: | |
| Program: | NEDO-DERR | | | (| Customer ID: | |
| Client: | NEASE_MFLBC | | | | External ID: | |
| Location: | FT10-36.7 WS-F | | | | | |
| | | | _ | | Begin | End |
| Aliquot: | 130688-FSHC-1 | Dilution: | 1 | Prep Date: | 05/24/2011 | 05/24/2011 |
| Analyst: | CRHINOCK | Units: | % | Analysis Date: | 05/24/2011 | 05/24/2011 |
| Analytes | | CAS | S Number | Result | RL. | Qualifier |
| %Lipids | | N/A | | 0.888 | | |
| Field Comments | Miles and and and a | | | | | |
| rieid Comments | Mirex requested | | | | | |
| Lab Comments | jar | | | | | |
| QC / Sample Comments | | | | <u>-</u> | | |
| Approved By | SROBERTS | | | 6/01/2011 | | |

| Date Collected: | 04/27/2011 17:18 Begin: | Test: OEPA 581 Matrix SFF End: 09/14/2010 17:00 | \$ | Batch: Collected by: Sample Type: Station ID: Customer ID: | OTHER |
|---|-------------------------------|---|------------------------------|--|---------------------------------|
| | NEASE_MFLBC FT10-37.5 WS-F | | | External ID: | • |
| · | 130693-FSHC-1 CRHINOCK | Dilution: 1 Units: % | Prep Date: Analysis Date: | Begin 05/24/2011 05/24/2011 | End 05/24/2011 05/24/2011 |
| Analytes %Lipids | | CAS Number N/A | Result 1,20 | RL | Qualifier |
| ield Comments | Mirex requested | | | | |
| Lab Comments QC / Sample Comments | | | | | |
| Approved By | SROBERTS | Of Of | 5/01/2011 T | | |

| Date Collected: Program: Client: | 04/27/2011 17:18 Begin: | Test: OEPA 58 Matrix SFF End: 09/13/2010 14:25 | S | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | OTHER |
|--|-----------------------------|--|------------------------------|--|---------------------------------|
| · · | 130670-FSHC-1 TBERTULSON | Dilution: 1 Units: % | Prep Date: Analysis Date: | Begin 05/25/2011 05/25/2011 | End 05/25/2011 05/25/2011 |
| Analytes %Lipids | | CAS Number N/A | Result 1.18 | RL | Qualifier |
| Field Comments | Mirex requested | | | | |
| Lab Comments | | | | | |
| QC / Sample Comments | | · - | | | |
| Approved By | SROBERTS | On 0 | 6/01/2011 | | |

| Date Collected: Program: | 04/27/2011 17:18 Begin: NEDO-DERR | Test: OEPA 583 Matrix SFF End: 09/13/2010 18:00 | S | Collected by: Sample Type: Station ID: Customer ID: | OTHER |
|-----------------------------|---|--|------------------------------|--|---------------------------------|
| Į. | NEASE_MFLBC FT10-32.0-CC-O | | | External ID: | |
| | 130678-FSHC-1 TBERTULSON | Dilution: 1 Units: % | Prep Date: Analysis Date: | Begin 05/25/2011 05/25/2011 | End 05/25/2011 05/25/2011 |
| Analytes %Lipids | | CAS Number N/A | Result 3.65 | RL | Qualifier |
| Field Comments | Mirex requested | | | | |
| Lab Comments | 2 fish | | | | |
| QC / Sample Comments | | ······································ | | | |
| Approved By | SROBERTS | On 06 | 5/01/2011 | | |

| Sample: | 130683 | Test: OEPA 58 | 1.5 | Batch: | ORGLIP_0535-052611 |
|-------------------------|------------------|------------------|----------------|---------------------|--------------------|
| Date Received: | 04/27/2011 17:18 | Matrix SFF | • | Collected by: | OTHERS |
| | Begin: | End: | 5 | Sample Type: | OTHER |
| Date Collected: | | 09/14/2010 12:00 | | Station ID: | |
| Program: | NEDO-DERR | | (| Customer ID: | |
| Client: | NEASE_MFLBC | | | External ID: | |
| Location: | FT10-35.4-W\$-F | | | | |
| - | | | | Begin | End |
| Aliquot: | 130683-FSHC-1 | Dilution: 1 | Prep Date: | 05/25/2011 | 05/25/2011 |
| Analyst: | TBERTULSON | Units: % | Analysis Date: | 05/25/2011 | 05/25/2011 |
| Analytes | | CAS Number | Result | RL | Qualifier |
| %Lipids | | N/A | 0.788 | | |
| Field Comments | Mirex requested | | | | |
| | | | | | |
| Lab Comments | | | | | |
| QC / Sample Comments | | | | | |
| Approved By | SROBERTS | | 6/01/2011 | •• | |

| Sample: Date Received: | 130685 04/27/2011 17:18 Begin: | | est: OEPA 58: trix SFF | (| Batch: Collected by: Sample Type: | |
|---------------------------|---|-----------|---------------------------|----------------|---|------------|
| Date Collected: | - | 09/14 | 1/2010 12:00 | | Station ID: | |
| Program: | NEDO-DERR | | | (| Customer ID: | |
| Client: | NEASE_MFLBC | | | | External ID: | |
| Location: | FT10-35.4-YB-O | | | | | |
| | | | | | Begin | End |
| Aliquot: | 130685-FSHC-1 | Dilution: | 1 | Prep Date: | 05/25/2011 | 05/25/2011 |
| Analyst: | TBERTULSON | Units: | % | Analysis Date: | 05/25/2011 | 05/25/2011 |
| Analytes | | CAS | S Number | Result | RL | Qualifier |
| %Lipids | | N/A | 1 | 4.59 | | |
| Field Comments | Mirex requested | | | | | ····· |
| Lab Comments | | <u></u> | | | | |
| QC / Sample Comments | | | | <u>=</u> . | | |
| Approved By | SROBERTS | | 06 | 5/01/2011 | | |

| Date Collected: Program: Client: | 130689 04/27/2011 17:18 Begin: NEDO-DERR NEASE_MFLBC FT10-37.5 WS-O | Test: OEPA Matrix SFF End: 09/14/2010 17: | 5 90 | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | |
|--|---|---|------------------------------|--|----------------------------------|
| | 130689-FSHC-1 TBERTULSON | Dilution: 1 Units: % | Prep Date: Analysis Date: | Begin 05/25/2011 05/25/2011 | End 05/25/2011 05/25/2011 |
| Analytes %Lipids | | CAS Number N/A | Result 6.01 | RL | Qualifier |
| Field Comments | Mirex requested | | | <u>.</u> | |
| Lab Comments | | | | | |
| QC / Sample Comments | | | | | |
| Approved By | SROBERTS | | 06/01/2011 | | |

| Date Collected: Program: Client: | 04/27/2011 17:18 Begin: | Matr End: | st: OEPA 583 ix SFF 2010 08:30 | | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | OTHER | |
|--|----------------------------|--------------|--------------------------------------|----------------|--|-------------|---|
| | | · | | | Begin | End | ٦ |
| • | 130691-FSHC-1 | Dilution: | 1 | Prep Date: | 05/25/2011 | 05/25/2011 | ١ |
| Analyst: | TBERTULSON | Units: " | % | Analysis Date: | 05/25/2011 | 05/25/2011 | |
| Analytes | | CAS | Number | Result | RL | Qualifier | _ |
| %Lipids | | N/A | _ | 4.47 | | | |
| Field Comments | Mirex requested | | | | - | | |
| Lab Comments | | | | | | | |
| QC / Sample Comments | | | ,- | | | | |
| Approved By | SROBERTS | 0- | 06 | 5/01/2011 | | | |

| Date Collected: Program: Client: | 04/27/2011 17:18 Begin: | Test: OEPA 58 Matrix SFF End: 09/14/2010 12:00 | | Batch: Collected by: Sample Type: Station ID: Customer ID: External ID: | OTHER |
|--|----------------------------|--|----------------|--|-------------|
| | 120500 2010 1 | | | Begin | End |
| • | 130692-FSHC-1 | Dilution: 1 | _ | 05/25/2011 | 05/25/2011 |
| Analyst: | TBERTULSON | Units: % | Analysis Date: | 05/25/2011 | 05/25/2011 |
| Analytes | | CAS Number | Result | RL | Qualifier |
| %Lipids | . . | N/A | 3.65 | - | |
| Field Comments | Mirex requested | | | | |
| Lab Comments | | | | | |
| QC / Sample Comments | | , | | | |
| Annroved Rv | SROBERTS | | 6/01/2011 | | |

Test: OEPA 581.5 Sample: 130694 Batch: ORGLIP_0535-052611 Collected by: OTHERS **Date Received:** 04/27/2011 17:18 **Matrix** SFF Begin: End: Sample Type: OTHER **Date Collected:** 09/14/2010 09:15 Station ID: Program: NEDO-DERR **Customer ID:** Client: NEASE_MFLBC External ID: Location: FT10-33.3-CC-O L7NX-6 Begin End Aliquot: 130694-FSHC-1 Dilution: 1 **Prep Date:** 05/25/2011 05/25/2011 Analyst: TBERTULSON Units: % **Analysis Date:** 05/25/2011 05/25/2011 **Analytes CAS Number** Result RL Qualifier %Lipids N/A 5.17 **Field Comments** Mirex requested L7NX6 008,004,005,006 composite 4 jars **Lab Comments** QC / Sample Comments **Approved By** SROBERTS 06/01/2011 On

| Sample: | 130686 | Test: OEPA 581 | .5 | Batch: | ORGLIP_0536-06061 |
|-------------------------|------------------|------------------|----------------|---------------|-------------------|
| Date Received: | 04/27/2011 17:18 | Matrix SFF | (| Collected by: | OTHERS |
| | Begin: | End: | 9 | iample Type: | OTHER |
| Date Collected: | | 09/14/2010 15:30 | | Station ID: | |
| Program: | NEDO-DERR | | (| Customer ID: | |
| Client: | NEASE_MFLBC | | | External ID: | |
| Location: | FT10-36.7 YB-O | | | _ | |
| - | | · | - | Begin | End |
| Aliquot: | 130686-FSHC-1 | Dilution: 1 | Prep Date: | 06/03/2011 | 06/03/2011 |
| Analyst: | TBERTULSON | Units: % | Analysis Date: | 06/03/2011 | 06/03/2011 |
| Analytes | | CAS Number | Result | RL | Qualifier |
| %Lipids | | N/A | 4.18 | | |
| Field Comments | Mirex requested | | | | |
| Lab Comments | | | | | |
| QC / Sample Comments | | | | | |
| Approved By | SROBERTS | On 06 | /08/2011 | - | |

APPENDIX C

DATA QUALITY ASSESSMENT

DATA QUALITY ASSESSMENT SOIL AND SEDIMENT ANALYTICAL RESULTS OPERABLE UNIT 3 FORMER NEASE CHEMICAL SITE SALEM, OHIO

This report presents the findings of the data quality review performed on the analyses of environmental samples collected at Operable Unit 3 of the Former Nease Chemical Site, located in Salem, Ohio (Site). Sediment samples were collected from September 8, 2010 to September 16, 2010; soil samples were collected from September 20, 2010 to October 5, 2010 and from March 28, 2011 to March 31, 2011 (Event). The chemical data for samples collected at the Site were assessed to identify quality issues which could affect the use of the data for decision making purposes.

The Event consisted of analysis of 52 primary soil samples, 49 primary sediment samples, and the following Quality Control (QC) samples:

- thirteen (13) field duplicate samples; and
- thirteen (13) matrix spike/matrix spike duplicate (MS/MSD) samples.

Information regarding the sample point identifications, analytical parameters, QC samples, sampling dates, and contract laboratory sample delivery group (SDG) designations are summarized in Table C-1.

Samples were analyzed for mirex, total organic carbon (TOC), percent solids, and grain size. TestAmerica Laboratories, Inc. of North Canton, Ohio (OhioVAP Certification #CL0024), performed all chemical analyses, except for grain size analysis which was performed by TestAmerica Laboratories, Inc. of Burlington, Vermont. Analyses were performed following:

- Mirex following USEPA SW-846¹ Method 8081B Organochlorine Pesticides by Gas Chromatography (November, 2000);
- Total Organic Carbon following USEPA Methods of Soil Analysis (MSA) Walkley-Black Methods for the Determination of Total Organic Carbon (TOC) in Soils and Sediments (April, 2002);
- Percent Solids following USEPA Methods for Chemical Analysis of Water and Wastes (MCAWW)
 160.3 MOD; and
- Grain Size following ASTM International Method D422 Standard Test Method for Particle-Size Analysis of Soils.

The laboratory data were evaluated following USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (June 2008), as applicable to the above analytical methods.

¹ USEPA, 1996, Test methods for evaluating solid waste, physical/chemical methods (SW-846): 3rd edition, Environmental Protection Agency, National Center for Environmental Publications, Cincinnati, Ohio, accessed at URL http://www.epa.gov/epaoswer/hazwaste/test/sw846.htm



In general, chemical results for the samples collected at the Site were qualified on the basis of outlying precision or accuracy parameters, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data during the data validation process.

The analyte was reported above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample.

The data generated as part of this Event met the QC criteria established in the respective USEPA methods and the National Functional Guidelines, with the exception of the following bulleted items highlighting qualifications to specific parameters. Although these qualifications were applied to some of the samples collected at the site, the qualifications may not have been required or applied to all samples collected. Table C-2 summarizes all qualifications applied to the data, with applicable qualifier comments.

- Several mirex and TOC results were qualified as estimated (J) because the relative percent difference (RPD) between the field duplicate and corresponding primary sample was above QC criteria.
- One TOC result was qualified as estimated (J) because the laboratory duplicate RPD was above QC criteria.
- Several mirex results were qualified as estimated (J) because the matrix spike (MS) recovery was above QC criteria.
- A number of mirex samples were qualified as estimated (J) because a surrogate recovery was above QC criteria.
- Several mirex results were qualified as estimated (J) when the continuing calibration percent difference (%D) was greater than 25%.
- Several mirex results were qualified as estimated (J) when the %D between the primary and confirmation columns was greater than 25%. The higher result was reported by the laboratory.

Several samples were analyzed at dilutions, due to high concentrations of target analytes. Dilutions do not require qualifications based on National Functional Guidelines.

Based on the data quality assessment, the analytical data for samples collected at the Site were determined to be acceptable (including estimated data) for their intended use. Generally, acceptable levels of accuracy and precision, based on laboratory control samples, matrix spike/matrix spike duplicates, field duplicate and surrogate recoveries, were achieved for the data. In addition, the data completeness (i.e. the ratio of the amount of valid data obtained to the amount expected, including estimated (J/UJ) data) was 100%.

TABLE C-1
Sample Summary and Analytical Parameters
PDI Technical Memorandum
Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| Lab SDG | Field ID | Matrix | Sample Date | Mirex | тос | Percent Solids | Grain Size | Field Duplicate | MS/MSD |
|------------------------|----------------------------------|----------|------------------------|------------------|-----|-------------------|---------------|--------------------|--|
| A0I130456 | SD10-31.1R-0-2 | SD | 9/8/2010 | x | х | х | X | | |
| A0I130456 | SD10-31.2L-0-4 | SD | 9/8/2010 | x | х | х | x | | |
| A0I130456 | SD10-31.3R-0-6 | SD | 9/8/2010 | × | х | х | × | | |
| A0I130456 | SD10-31.4R-0-6 | SD | 9/8/2010 | х | × | х | × | | |
| A0I130456 | SD10-31.7L-0-4 | SD | 9/8/2010 | × | Х. | × | x | | |
| A0I130456 | SD10-31.8-0-4 | SD | 9/8/2010 | × | х | × | x | | |
| A0I130456 | SD10-31.9C-0-4 | SD | 9/8/2010 | | × | × | | | |
| A0I130456 | SD10-32.0-0-6 | SD | 9/8/2010 | х | × | × | X | | |
| A0I130456 | SD10-32.0C-0-3 | SD | 9/8/2010 | ^ - | × | × | <u> </u> | | _ |
| A0I130456 | SD10-32.1R-0-1 | SD | 9/9/2010 | | × | x | - | <u> </u> | |
| - | | | 1 | X | | | X | | |
| A0I130456 | SD10-32.2L-0-1 | SD | 9/9/2010 | × | X | × | × | | , х |
| A0I130456 | SD10-32.3L-0-6 | SD | 9/9/2010 | X | × | X | X | | |
| A0I130456 | SD10-32.9C-0-3 | SD | 9/9/2010 | | X | × | <u> </u> | | |
| A0I130456 | SD10-32.9R-0-3 | SD | 9/9/2010 | X | X | X | × | | |
| A0I130456 | SD10-33.0R-0-2 | SD | 9/9/2010 | X | X | X | х | | |
| A0I130456 | SD10-33.1L-0-4 | SD | 9/9/2010 | x | X | x | , х | | |
| A0I130456 | SD10-DUP-01 | SD | 9/9/2010 | x | x | x | x | x | |
| A0I150590 | SD10-33.2L-0-6 | SD | 9/13/2010 | х | × | x | × | | |
| A01150590 | SD10-33.5-0-4 | SD | 9/13/2010 | x | Х. | × | x | | |
| A0I150590 | SD10-33.6R-0-2 | SD | 9/13/2010 | x | х | x | x | | |
| A0I150590 | SD10-33.7R-0-3 | SD | 9/13/2010 | × | х | х | х | | |
| A0I150590 | SD10-33.8C-0-2 | SD | 9/13/2010 | × | x | x | × | | |
| A0I150590 | SD10-33.8R-0-3 | SD | 9/13/2010 | x | × | × | - <u>~</u> | | |
| A0I150590 | SD10-33.9R-0-4 | SD | 9/13/2010 | × | x | x | x | | |
| A01150590 | SD10-DUP2 | SD | 9/13/2010 | × | × | × | x | x | |
| A0I150590 | SD10-34.4L-0-3 | SD | 9/14/2010 | × | x | × | x | | • • |
| A0I150590 | SD10-34.5R-0-7 | SD | 9/14/2010 | × | × | X | × | | |
| A0I150590 | SD10-34.6L-0-3 | SD | 9/14/2010 | х | x | х | x | | |
| A0I150590 | SD10-34.8R-0-3 | SD | 9/14/2010 | X | х | X | х | | x |
| A0I150590 | SD10-34.9L-0-2 | SD | 9/14/2010 | x | X- | х | x | | |
| A0I150590 | SD10-35.1R-0-2 | SD | 9/14/2010 | X | X | X | X | | |
| A0I150590 A0I150590 | SD10-35.2L-0-1 SD10-35.4C-0-4 | SD SD | 9/14/2010 9/14/2010 | X | X | X | X | | |
| A01150590 A01150590 | SD10-35.4C-0-4 SD10-36.6L-0-2 | SD | 9/14/2010 | X X | X | X | X | | |
| A0I160575 | SD10-35.7R-0-2 | SD | 9/15/2010 | x | × | × | x | | |
| A0I160575 | SD10-35.8R-0-1 | SD | 9/15/2010 | x | × | × | х | | |
| A0I160575 | SD10-35.9R-0-2 | SD | 9/15/2010 | х | х | х | х | | |
| A0I160575 | SD10-36.0L-0-2 | SD | 9/15/2010 | х | x | х | х | | |
| A0J120402 | SD10-36.1C-0-3 | SD | 9/15/2010 | | х | х | | | |
| A01160575 | SD10-36.1L-0-1 | SD | 9/15/2010 | X | X | X | X | ļ | |
| A0I160575 | SD10-36.2R-0-1 SD10-36.3L-0-1 | SD | 9/15/2010 | X . | X | X | X | | × |
| A0I160575 A0I160575 | SD10-36.4L-0-2 | SD | 9/15/2010 | X X | X | X | X | | |
| A01160575 | SD10-37.0-0-2 | SD | 9/15/2010 | X | × | × | X | | |
| A01160575 | SD10-37.1R-0-2 | SD | 9/15/2010 | × | × | × | x | <u> </u> | |
| A0I160575 | SD10-37.2-0-12 | SD | 9/15/2010 | × | x | x | X | | |
| A0I160575 | SD10-DUP3 | ŞD | 9/15/2010 | х | x | х | x | х | |
| A0I160575 | SD10-37.3R-0-6 | SD | 9/16/2010 | х | x | х | х | | × |
| A01160575 | SD10-37.4R-0-4 | SD | 9/16/2010 | X | X | X | X | <u> </u> | ļ |
| A0I160575 | SD10-37.5R-0-6 | SD | 9/16/2010 | x | X | Х | X | l | l |



TABLE C-1
Sample Summary and Analytical Parameters
PDI Technical Memorandum
Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| A01300420 | Lab SDG | Field ID | Matrix | Sample Date | Mirex | тос | Percent Solids | Grain Size | Field Duplicate | MS/MSD |
|--|-----------|----------------|--------|-------------|-------|--------------|--|----------------|--------------------|-------------|
| ADII160576 SD10-DUP4 SD | A0I160575 | SD10-37.6-0-3 | SD | 9/16/2010 | x | × | × | × | | |
| ADIZ20591 FPS10-001 SO 92/202010 X X X X X X ADIZ20591 FPS10-003 SO 92/202010 X X X X X X X X ADIZ20591 FPS10-003 SO 92/202010 X X X X X X X X X | A0J120402 | SD10-37.6C-0-2 | SD | 9/16/2010 | | х | х | | | |
| A01220591 FPS10-001 SO 92/02/010 X X X X X X A01220591 FPS10-002-01 SO 92/02/010 X X X X X X A01220591 FPS10-003 SO 92/02/010 X X X X X X A01220591 FPS10-004 SO 92/02/010 X X X X X X A01220591 FPS10-004 SO 92/02/010 X X X X X X X A01220591 FPS10-005 SO 92/12/010 X X X X X X X A01220591 FPS10-006 SO 92/12/010 X X X X X X X A01220591 FPS10-006 SO 92/12/010 X X X X X X X A01220591 FPS10-006 SO 92/12/010 X X X X X X A01220591 FPS10-006-01 SO 92/12/010 X X X X X X A01220591 FPS10-006-02 SO 92/12/010 X X X X X A01220591 FPS10-006-02 SO 92/12/010 X X X X X X A01220593 FPS10-006-02 SO 92/12/010 X X X X X X A01220593 FPS10-006-02 SO 92/12/010 X X X X X X A01220593 FPS10-006-02 SO 92/12/010 X X X X X X A01240563 FPS10-011 SO 92/22/010 X X X X X A01240563 FPS10-011 SO 92/22/010 X X X X X A01240563 FPS10-012 SO 92/22/010 X X X X X A01240563 FPS10-012 SO 92/22/010 X X X X X A01240563 FPS10-012 SO 92/22/010 X X X X X A01300420 FPS10-013 SO 92/28/010 X X X X X A01300420 FPS10-013 SO 92/28/010 X X X X X A01300420 FPS10-013 SO 92/28/010 X X X X X X A01300420 FPS10-016 SO 92/28/010 X X X X X X A01300420 FPS10-017 SO 92/28/010 X X X X X X A01300420 FPS10-017 SO 92/28/010 X X X X X X X A01300420 FPS10-017 SO 92/28/010 X X X X X X X A01300420 FPS10-017 SO 92/28/010 X X X X X X X A01300420 FPS10-017 SO 92/28/010 X X X X X X X A01300420 FPS10-019 SO 92/28/010 X X X X X X A01300420 FPS10-020 SO 92/28/010 X X X X X X A0120042 | | SD10-DUP4 | SD | 9/16/2010 | × | × | × | | x | |
| A01220591 FPS10-002-01 SO 9120/2010 X | A0I220591 | FPS10-001 | so | | | | | X | | |
| A01220591 FPS10-003 SO 912/2010 X X X X X | | FPS10-002-01 | so | 9/20/2010 | | | | | | |
| A01220591 FPS10-00H | | | | | | | | | | |
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| A01240563 FPS10-D11 SO 9/22/2010 X X X X X X A01240563 FPS10-DUP-H-02 SO 9/22/2010 X X X X X X A01240563 FPS10-D12 SO 9/23/2010 X X X X X X X A01300420 FPS10-D13 SO 9/28/2010 X X X X X A01300420 FPS10-D14 SO 9/28/2010 X X X X X X A01300420 FPS10-D15 SO 9/28/2010 X X X X X X A01300420 FPS10-D15 SO 9/28/2010 X X X X X X X A01300420 FPS10-D15 SO 9/28/2010 X X X X X X X X A01300420 FPS10-D16 SO 9/28/2010 X X X X X X X X A01300420 FPS10-D18 SO 9/28/2010 X X X X X X X A01300420 FPS10-D194 SO 9/28/2010 X X X X X X A01300420 FPS10-D194 SO 9/28/2010 X X X X X X A01300420 FPS10-D194 SO 9/28/2010 X X X X X X X A01300420 FPS10-D19 SO 9/29/2010 X X X X X X X A01300420 FPS10-D19 SO 9/29/2010 X X X X X X X A01300420 FPS10-O21 SO 9/29/2010 X X X X X X A01300420 FPS10-O21 SO 9/29/2010 X X X X X X A01300420 FPS10-D19 SO 9/29/2010 X X X X X X A01300420 FPS10-D19 SO 9/29/2010 X X X X X X A01300420 FPS10-D22 SO 9/29/2010 X X X X X X A01300420 FPS10-D22 SO 9/29/2010 X X X X X X X A01300420 FPS10-D22 SO 9/30/2010 X X X X X X X A01300420 FPS10-D24 SO 9/30/2010 X X X X X X X A01300425 FPS10-D24 SO 9/30/2010 X X X X X X X X X | | | | | | | | | | |
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| A01300420 | | | | | Х | X | х | X | | |
| A01300420 | | | | | X | x | × | x | | |
| A01300420 | | | | 9/28/2010 | X | X | Χ. | x | | |
| A01300420 | A0I300420 | | SO | 9/28/2010 | X | X | x | x | | |
| A01300420 | A01300420 | | SO | 9/28/2010 | X | x | х | x | | |
| A01300420 | A0I300420 | FPS10-017 | SO | 9/28/2010 | x | x | x | x | | |
| A01300420 | A0I300420 | FPS10-DUP4 | so | 9/28/2010 | X | х | х | | x | x |
| A01300420 | A0I300420 | FPS10-018 | SO | 9/29/2010 | x | X | х | × | | · |
| A0I300420 | A0I300420 | FPS10-019 | so | 9/29/2010 | | | | | | x |
| A0 300420 | A0I300420 | FPS10-020 | SO | 9/29/2010 | х | х | х | x | | |
| A0I300420 | | FPS10-021 | so | | | | | | | |
| A01300420 | | | | | | | | _ | | <u> </u> |
| A0J040425 | | | | | | | | <u> </u> | <u> </u> | |
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| A0J040425 FPS10-030 SO 10/1/2010 x x x x x x X X X X X X X X X X X X X | | | | | | | | | | |
| A0J040425 FPS10-031 SO 10/1/2010 x </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u></u></td> <td></td> | | | | | | | | | <u></u> | |
| A0J040425 FPS10-032 SO 10/1/2010 x </td <td>·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> | · | | | | | | | | <u> </u> | |
| A0J040425 FPS10-033 SO 10/1/2010 x x x x A0J040425 FPS10-034 SO 10/1/2010 x x x x A0J040425 FPS10-DUP7 SO 10/1/2010 x x x x A0J060517 FPS10-035 SO 10/2/2010 x x x x A0J060517 FPS10-036 SO 10/2/2010 x x x x A0J060517 FPS10-037 SO 10/2/2010 x x x x A0J060517 FPS10-038 SO 10/2/2010 x x x x A0J060517 FPS10-DUP8 SO 10/2/2010 x x x x x A0J060517 FPS10-049 SO 10/3/2010 x x x x x A1C080536 FPS10-041 SO 10/3/2010 x x x x x A1C0 | | | | | | | | | L | |
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| A0J060517 FPS10-036 SO 10/2/2010 x x x x A0J060517 FPS10-037 SO 10/2/2010 x x x x A0J060517 FPS10-038 SO 10/2/2010 x x x x A0J060517 FPS10-DUP8 SO 10/2/2010 x x x x x x A0J060517 FPS10-039 SO 10/3/2010 x < | | | | _ | | | | ļ | X | |
| A0J060517 FPS10-037 SO 10/2/2010 x x x x A0J060517 FPS10-038 SO 10/2/2010 x < | | | | | | | | | | |
| A0J060517 FPS10-038 SO 10/2/2010 x </td <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td> </td> <td>X</td> <td></td> <td></td> | | | | | X | | | X | | |
| A0J060517 FPS10-DUP8 SO 10/2/2010 x x x x x x x x x x x x x x x x x x | | | | | X | X | × | × | | |
| A0J060517 FPS10-039 SO 10/3/2010 x x x x A0J060517 FPS10-040 SO 10/3/2010 x x x x A0J060517 FPS10-041 SO 10/4/2010 x x x x A1C080536 FPS10-042 SO 10/4/2010 x x x x A1C080536 FPS10-043 SO 10/4/2010 x x x x A0J060517 FPS10-044 SO 10/4/2010 x x x x A0J060517 FPS10-045 SO 10/4/2010 x x x x A0J060517 FPS10-046 SO 10/4/2010 x x x x | | | | | | х | X | X | | |
| A0J060517 FPS10-040 SO 10/3/2010 x x x x A0J060517 FPS10-041 SO 10/4/2010 x < | | | | | х | х | X | | X | Х |
| A0J060517 FPS10-041 SO 10/4/2010 x x x x x x x x x x x x x x x x x x | A0J060517 | | SO | 10/3/2010 | x | х | x | x | | |
| A1C080536 FPS10-042 SO 10/4/2010 x x x x A1C080536 FPS10-043 SO 10/4/2010 x x x A0J060517 FPS10-044 SO 10/4/2010 x x x A0J060517 FPS10-045 SO 10/4/2010 x x x A0J060517 FPS10-046 SO 10/4/2010 x x x | A0J060517 | | SO | 10/3/2010 | х | х | x | x | | |
| A1C080536 FPS10-042 SO 10/4/2010 x x x x A1C080536 FPS10-043 SO 10/4/2010 x x x A0J060517 FPS10-044 SO 10/4/2010 x x x A0J060517 FPS10-045 SO 10/4/2010 x x x A0J060517 FPS10-046 SO 10/4/2010 x x x | A0J060517 | FPS10-041 | SO | 10/4/2010 | х | х | х | х | 1 | × |
| A1C080536 FPS10-043 SO 10/4/2010 x x x A0J060517 FPS10-044 SO 10/4/2010 x x x x A0J060517 FPS10-045 SO 10/4/2010 x x x x A0J060517 FPS10-046 SO 10/4/2010 x x x x | A1C080536 | FPS10-042 | so | 10/4/2010 | | | _ | | | × |
| A0J060517 FPS10-044 SO 10/4/2010 x x x x A0J060517 FPS10-045 SO 10/4/2010 x x x x A0J060517 FPS10-046 SO 10/4/2010 x x x x | | FPS10-043 | so | | - | | | | | |
| A0J060517 FPS10-045 SO 10/4/2010 x x x x x X A0J060517 FPS10-046 SO 10/4/2010 x x x x x X X X X X X X X X X X X X X | | | | | | x | | | | |
| A0J060517 FPS10-046 SO 10/4/2010 x x x x | | | | | | | | | <u> </u> | |
| | | | | | | | | | <u> </u> | <u> </u> |
| A0J060517 FPS10-DUP9 SO 10/4/2010 x x x x | | | | | | | | ^ | - | <u> </u> |



TABLE C-1

Sample Summary and Analytical Parameters PDI Technical Memorandum

Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| Lab SDG | Field ID | Matrix | Sample Date | Mirex | тос | Percent Solids | Grain Size | Field Duplicate | MS/MSD |
|-----------|--------------|--------|-------------|-------|--------------|-------------------|---------------|--------------------|----------|
| A0J060517 | FPS10-047 | so | 10/5/2010 | × | x | × | | | |
| A0J060517 | FPS10-048 | SO | 10/5/2010 | × | х | x | х | | |
| A1C300593 | FPS10-053 | SO | 3/28/2011 | X | х | X | × | | |
| A1C300593 | FPS10-053 FD | . so | 3/28/2011 | X | X | X | | х | |
| A1C300562 | FPS10-054 | SO | 3/29/2011 | x | X | X | х | - | × |
| A1C300562 | FPS10-056 | SO | 3/29/2011 | X | х | x | x | | × |
| A1C300562 | FPS10-057 | . so | 3/29/2011 | × | X · · | . x | x | | |
| A1C300562 | FPS10-057FD | SO | 3/29/2011 | · x | Χ. | × | | × | <u> </u> |
| A1C300562 | FPS10-058 | so | 3/29/2011 | х | x | × | х | | |
| A1C310607 | FPS10-066 | SO | 3/31/2011 | x | x | x | х | | |

Notes: MS/MSD - matrix spike/matrix spike duplicate

SD = sediment

SDG = sample delivery group

SO = soil

TOC = total organic carbon



TABLE C-2
Data Qualifier Summary
PDI Technical Memorandum
Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| Lab SDG | Field ID | Matrix | Analyte | Qualifier | Comments |
|-----------|----------------|--------|---------|-----------|--|
| A0130456 | SD10-31.1R-0-2 | SD | Mirex | J | Continuing calibration %D > 25% |
| A0130456 | SD10-31.7L-0-4 | SD | Mirex | J | Continuing calibration %D > 25% |
| A0130456 | SD10-31.8-0-4 | SD | Mirex | J | Continuing calibration %D > 25% |
| A0130456 | SD10-32.1R-0-1 | SD | Mirex | J | Continuing calibration %D > 25% |
| A0130456 | SD10-32.3L-0-6 | SD | Mirex | J | Continuing calibration %D > 25% |
| A0130456 | SD10-32.9R-0-3 | SD | Mirex | J | Continuing calibration %D > 25% |
| A0130456 | SD10-33.0R-0-2 | SD | Mirex | J | Continuing calibration %D > 25% |
| A0130456 | SD10-33.1L-0-4 | SD | Mirex | J | Continuing calibration %D > 25% |
| A0130456 | SD10-DUP-01 | SD | Mirex | J | Continuing calibration %D > 25% |
| A0I130456 | SD10-31.2L-0-4 | SD | Mirex | J | MS Recovery above QC criteria |
| A0I130456 | SD10-31.3R-0-6 | SD | Mirex | J | MS Recovery above QC criteria |
| A0I130456 | SD10-31.4R-0-6 | SD | Mirex | J | MS Recovery above QC criteria |
| A0I130456 | SD10-32.0-0-6 | SD | Mirex | J | MS Recovery above QC criteria |
| A0I130456 | SD10-32.2L-0-1 | SD | Mirex | J | MS Recovery above QC criteria |
| A0I150590 | SD10-33.7R-0-3 | SD | Mirex | J | Field duplicate RPD above QC criteria |
| A0I150590 | SD10-DUP2 | SD | Mirex | J | Field duplicate RPD above QC criteria |
| A01160575 | SD10-36.1L-0-1 | SD | Mirex | J | Field duplicate RPD above QC criteria |
| A0I160575 | SD10-37.2-0-12 | SD | Mirex | J | Surrogate recovery outside QC criteria |
| A0I160575 | SD10-37.5R-0-6 | SD . | Mirex | J | Field duplicate RPD above QC criteria |
| A0I160575 | SD10-DUP3 | SD . | Mirex | J | Field duplicate RPD above QC criteria |
| A0I160575 | SD10-DUP4 | SD | Mirex | J | Field duplicate RPD above QC criteria |
| A0I220591 | FPS10-001 | so | TOC | J | Field duplicate RPD above QC criteria |
| A0I220591 | FPS10-008-02 | SO | Mirex | J | Primary and secondary column confirmation >25% |
| A0I220591 | FPS10-DUP-H-01 | SO | TOC | J | Field duplicate RPD above QC criteria |
| A0I240563 | FPS10-011 | so | Mirex | J | Field duplicate RPD above QC criteria |
| A0I240563 | FPS10-DUP-H-02 | SO | Mirex | J | Field duplicate RPD above QC criteria |
| A0I300420 | FPS10-013 | so | Mirex | J | Surrogate recovery above QC criteria |
| A0I300420 | FP\$10-015 | so | Mirex | J | Surrogate recovery above QC criteria |
| A0I300420 | FPS10-016 | so | Mirex | J | Surrogate recovery above QC criteria |
| A0I300420 | FPS10-017 | so | Mirex | J | Surrogate recovery above QC criteria |
| A0I300420 | FPS10-DUP4 | SO . | Mirex | J | Surrogate recovery above QC criteria |
| A0I300420 | FPS10-DUP5 | so | Mirex | J. | Surrogate recovery above QC criteria |
| A0J040425 | FPS10-030 | SO | Mirex | J | Field duplicate RPD above QC criteria |



TABLE C-2 **Data Qualifier Summary** PDI Technical Memorandum Nease Chemical Site OU3, Columbiana and Mahoning Counties, Ohio

| Lab SDG | Field ID | Matrix | Analyte | Qualifier | Comments |
|-----------|--------------|--------|---------|-----------|--|
| A0J040425 | FPS10-031 | SO | Mirex | J | Surrogate recovery above QC criteria |
| A0J040425 | FPS10-DUP7 | SO | Mirex | J | Field duplicate RPD above QC criteria |
| A0J060517 | FPS10-036 | SO | . Mirex | ·J | Surrogate recovery above QC criteria |
| A0J060517 | FPS10-037 | SO | Mirex | J | Surrogate recovery above QC criteria |
| A0J060517 | FPS10-038 | SO | Mirex | J | Surrogate recovery above QC criteria |
| A0J060517 | FPS10-041 | SO | TOC | J | Laboratory duplicate RPD above QC criteria |
| A0J060517 | FPS10-044 | SO | Mirex | · J | Surrogate recovery above QC criteria |
| A0J060517 | FP\$10-047 | SO | Mirex | J | Surrogate recovery above QC criteria |
| A0J060517 | FPS10-048 | SO | Mirex | J | Surrogate recovery above QC criteria |
| A0J060517 | FPS10-DUP9 | SO | Mirex | J | Surrogate recovery above QC criteria |
| A1C300562 | FPS10-053 | SO | Mirex | J | Primary and secondary column confirmation >25% |
| A1C300562 | FPS10-053 FD | \$O | Mirex | . J | Primary and secondary column confirmation >25% |
| A1C300562 | FPS10-056 | SO | Mirex | J | Primary and secondary column confirmation >25% |
| A1C300562 | FPS10-057 | so | Mirex | | Primary and secondary column confirmation >25% |
| A1C300562 | FPS10-057FD | SO | Mirex | J | Primary and secondary column confirmation >25% |
| A1C300562 | FPS10-058 | SO | Mirex | J | Primary and secondary column confirmation >25% |

Notes: %D = percent difference

MS = matrix spike

QC = quality control

RPD = relative percent difference

SD = sediment

SDG = sample delivery group

SO = soil

TOC = total organic carbon

Qualifiers:

J = estimated value

